Distance Learning Challenges and Intervention of **HEIS: Basis for Strategic Plan**

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Abstract

This study aimed to determine the challenges encountered by the students enrolled in distance/online learning from the four (4) Higher Education Institutions, the interventions to address these problems, and the effectiveness of the distance/online learning as perceived by the students. The study result showed that most students need a stable internet connection and use a smartphone as their learning device. Although some do not have a conducive learning space at home, the majority were able to study in a moderately peaceful environment. Another result shows that the time spent by each student creates a challenge since the students need help managing their time with too many tasks to comply with. The respondents believed that the teachers are moderately helpful, and they set a reasonable deadlines for tasks and activities. Moreover, the result shows that the four universities have provided students with distance/online learning resources. Also, most respondents agreed that online/ distance learning is moderately effective in delivering quality tertiary education.

Keywords: Distance/online learning, challenges, intervention

Introduction

The education system was met with radical changes when COVID-19 happened. The usual face-to-face learning methodology was suspended, and academic institutions were forced to adapt to the changes of the times. The pandemic brought about innovative learning methods, while both teachers and learners faced challenges and difficulties, particularly in delivering quality experiential learning. Some countries called this new learning methodology similar to traditional distance or online learning. However, several modifications were implemented to accommodate every type of learner so that every learner succeeds in these trying times.

According to Bates (2016), online learning is a form of distance education in which a course or program is fully designed to be delivered online or over the internet. Thus, online and distance learning have mainly been used interchangeably. Using this platform, faculty members use instructional strategies such as the delivery of instruction, student engagement, and assessment and evaluation of student learning that are specifically designed for a virtual environment (online) while "away" or "at a distance" from the student.

Some advantages of online learning include the efficiency in delivering instruction, accessibility, affordability, and it suits various learning styles. Online learning is considered efficient since it offers teachers various tools to deliver instruction, such as website links, videos, table data files (PDFs), podcasts, and other online learning resources.

Online learning is considered accessible since students can attend a class anywhere and perform their academic tasks quickly. Thus, providing them with the opportunity to manage their time personally. It is also considered affordable since it omits the cost of transportation, meals, boarding houses or apartments and other costs related to face-to-face instruction. More so, online learning suits various learning styles since it is considered efficient in delivering instruction using different methods. Thus, the resource materials given by the faculty member can fit the student's learning styles (Gautam, 2020).

In the Philippines, the Commission on Higher Education issued CMO No. 4 s. 2020, "Guidelines on the Implementation of Flexible Learning". This government agency's order aims "to explore innovative learning modalities that will facilitate migration from traditional to flexible teaching and learning options that are responsive to students' need for access to quality education." This guideline empowers students to decide on the most appropriate learning mode as early as their enrolment.

According to the CHED Memorandum Order, flexible learning is a teaching approach that accommodates the learners' needs. This memo may be using technology or non-digital technology, in-person learning, out-of-classroom learning or a combination of delivery modes. Hence, academic institutions offer printed modules as a mode of learning delivery, and some offer distance online learning in synchronous and asynchronous sessions. A flexible learning modality facilitates an outcomes-based education approach despite limitations and challenges.

However, the change in the mode of instruction from face-to-face to online learning was abrupt due to the pandemic. All institutions must strategize how to deliver online instruction using platforms such as Facebook learning page, Google Classroom and Google Meet, Zoom video conferencing, and others. Due to the abrupt change in how faculty members deliver their lessons, the researchers conducted this study to determine and evaluate the challenges encountered by students in distance/online learning during the pandemic. This change would be a basis to improve the services offered by the various institutions on how they can deliver their online classes and provide data to the administration on what intervention they can offer to help students cope with these changes.

Research Objectives

This study aims to determine and evaluate the challenges encountered by students in distance/online learning during the pandemic.

Specifically, the study aims to answer the following sub-questions:

- 1. What is the demographic profile of distance/online learning students?
- 2. What are the challenges encountered by students in the conduct of distance/online learning?
- 3. What are the interventions made to address the problems encountered?
- 4. How effective is distance/online learning for students?

Research Methodology

3.1. Research Design and Research Instrument

This quantitative study will use a descriptive-evaluative method employing inferences to determine the effectiveness of distance/online learning as the interventions provided appropriate solutions to the challenges identified.

Descriptive research is a method that describes the situation of the study that aims to inform through the analysis of the data gathered. An evaluative method is used to carefully consider the value of the current study (Dudovskiy, 2018) as it identifies the relationships between the problems encountered and the interventions made by the teachers and the academic institution to address these problems.

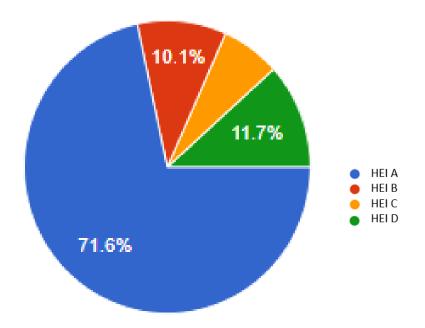
A research tool was designed by the four researchers and was distributed to the respondents to gather data. The questionnaire was divided into four parts: Part 1. Establishing the Demographic Profile of the Students,

Part 2 Evaluating the Challenges Encountered by Students in Distance/Online Learning, Part 3. Establishing Interventions Made by Higher Education Institutions (HEIs) on Distance/Online Learning and Part 4. Establishing the effectiveness of Distance/Online Learning.

3.2. Participants

This study employs the participation of four higher education institutions identified as HEI A, B, C and D. The study used purposive sampling in which the questionnaire was sent to students who could experience a year-long distance/online learning. The survey received responses from around 557 students, in which 71.6% (n=394) of respondents were from HEI A, 10.1% (n=56) from HEI B, 6.6% (n=37) from HEI C, and 11.7% (n=65) from HEI D as shown in Figure 1.

Figure 1 Higher Education Institution (HEI) Respondents



This study explores the similarities and differences in the problems encountered, and intervention approaches these higher education institutions make. The programs offered by these institutions are in engineering, computer studies, arts, science, and technology.

3.3. Research Instruments

The purpose of the questionnaire is to determine the demographic profile of the students, the challenges encountered by students in distance/online learning, the interventions made by Higher Education Institutions (HEIs) on Distance/Online Learning and the effectiveness of

Distance/Online Learning. The instrument was based on the published questionnaire form (Question Pro, 2020).

The demographic profile of the students includes the student's name, HEI they are enrolled with, program, year level and section, gender, checklist on how the school/university delivers distance/online learning, the availability of internet access to students for distance/online learning, the devices used by students for distance/online learning, the satisfactory level of the students with the technology and software used for distance/online learning, and the condition of students learning space at home.

Part 2 of the questionnaire: Establishing the challenges encountered by the student learner includes the collection of data on how often students attend their distance/online classes, the average time the students spend each day on distance/online learning, does the student have enough time to complete and work on their tasks and assignments, how students manage to cope with the work and compliance of tasks and assignments, how manageable are the student time in distance/online learning, the challenges encountered by students in distance/online learning, and the level of stress experienced by students in distance/online learning.

Part 3. Establishing interventions made includes the collection of how helpful the teachers are in the conduct of distance/online learning, how often students have a one-on-one virtual discussion with their teachers, how helpful the institution is in providing learning resources for distance/online learning, and the considerations given by teachers on tasks and compliance requirements.

Part 4. Establishing the effectiveness of the modality used includes the collection of data on how effective the distance/online learning has been for the students, how much the student has learned during the distance/online learning, how important for the student face-to-face virtual communication in the distance/online learning, the opinion of the students with regards to the suspension of the face-to-face classes, and what learning mode did they consider effective at this time of the pandemic, and how were the students overall learning experience from home. Appendix A shows the research tool formulated for this study.

3.4. Statistical Treatment of Data

The statistical tools used for this study were frequency of count, percentage distribution, ranking, weighted mean, and average weighted mean. Frequency count was determined to find the percentage or ratio of responses to the total number of respondents. The ranking was used to determine the importance of a particular item. Weighted mean was used to find the average score per item. The average weighted mean was used to determine where most scores cluster. To interpret the results of the frequency of responses, the Likert Scale was used. The following Likert scale interpretation was used in the description of computed data:

Table 1. Likert Scale

Score	Verbal Interpretation	Numerical Rating
5	Extremely satisfied	4.21-5.00
4	Very satisfied	3.41-4.20
3	Moderately satisfied	2.61-3.40
2	Slightly satisfied	1.81-2.60
1	Not at all satisfied	1.00-1.80

Results and Discussion

Table 2 shows the demographic profile of the students. Based on the table, there were 77 BS Architecture students, 28 BEng Chemical Engineering students, 19 BS Civil Engineering students, 42 BS Community Development students, 66 BS Computer Science students, 23 BS Electrical Engineering students, 40 BS Electronics and Communications Engineering students, 7 BS Human Services students, 48 BS Information System students, 88 BS Information Technology students, 14 BS Mathematics students, 79 BS Mechanical Engineering students, 2 BS Social Science students, 15 BTLEd major in Home Economics students and 9 BEng Process Operations and Maintenance students.

Table 2. Course/Program of Respondents

Course/Program	Count
BS Architecture	77
BEng Chemical Engineering	28
BS Civil Engineering	19
BS Community Development	42
BS Computer Science	66
BS Electrical Engineering	23
BS Electronics and Communications Engineering	40
BS Human Services	7
BS Information System	48
BS Information Technology	88
BS Mathematics	14
BS Mechanical Engineering	79

BS Social Science	2
BTLED Home Economics	15
BEng Process Operations and Maintenance	9
Total Respondents	557

Among these programs, the student's responses came from the following year levels: 38 (6.80%) were first-year students, 141 (25.30%) were second-year students, 219 (39.30%) were third-year students, 139 (25.00%) were fourth-year students and 20 (3.60%) belongs to the fifth-year level.

Table 3. Year Level of Respondents

Year Level	Count
First Year	38
Second Year	141
Third Year	219
Fourth Year	139
Fifth Year	20
Total Respondents	557

304 (54.60%) female students participated in the survey, while 253 (45.40%) of the respondents were male, as shown in Table 14.

Table 4. Gender of Respondents

Gender	Count
Female	304
Male	253
Total Respondents	557

The learning modality implemented by the higher education institutions where the respondents are enrolled shown in Table 5. Sixty-one (11.00%) respondents said their school uses online synchronous learning modality through Google Meet or Zoom, while 130 (24.00%) respondents answered online asynchronous using Google Classroom, Google Form, downloadable modules, videos, and others. There were no respondents who mentioned the absolute implementation of printed modules. However, the of printed modules use and online synchronous/asynchronous sessions was experienced by 20 (4.00%) of the respondents. 337 (61.00%) respondents answered that both online synchronous and asynchronous modes were implemented in their college/university. Five (5) answered that both online asynchronous and printed modules were applied by their institution. In contrast, four answered that online synchronous and printed modules were the learning modality implemented in their institution.

Table 5. Learning Modality Implemented by HEI of Respondents

Learning Modality	Count	Percentage
Online Synchronous (example: Google	61	11.00
Meet, Zoom)	01	
Online Asynchronous (example: Google		23.33
Classroom, Google Form, downloadable	130	
modules, videos, others.)		
Printed modules	0	0.00
Both Online Synchronous and	337	60.50
Asynchronous	337	
Online Synchronous/Asynchronous and	20	3.59
Printed Modules	20	
Online Asynchronous/Printed Modules	5	0.88
Online Synchronous/Printed Modules	4	0.71
Total Respondents	557	100.00

Table 6 shows the respondents' availability of learning devices and internet access. Twenty-six respondents, or 4.60% of the total respondents, do not have their own devices and need stable internet connections. Three hundred ninety-three respondents, or 70.80% of the total respondents, were lucky to have a distance/online learning device. However, their internet is unstable. One hundred thirty-eight respondents, or 24.40% of the total, have a stable internet connection and a distance/online learning device.

Table 6. Availability of Learning Device and Internet Access

Availability of Learning Device and Internet		Percent
Access	Count	age
No, I share a device with others, and my internet		4.60
is unstable.	26	
Yes, I have a device to use for distance/online		70.80
learning, but my internet is unstable.	393	

Yes. I have stable internet and a device to use for		24.40
distance/online learning	138	
Total Respondents	557	100.00

The learning device used by the respondents also varies. Some have desktops and smartphones, while others have both laptops and smartphones. Most of the respondents use a laptop. Nevertheless, the majority use a smartphone for distance/online learning. Table 7 summarizes the demographics of the learning device used by the students.

Table 7. Learning Device Used by Respondents

Learning Device Used	Count	Percentage
Desktop	24	4.37
Laptop	121	21.72
Smartphone	353	63.38
Tablet	55	9.87
Desktop & Smartphone	1	0.18
Laptop & Smartphone	2	0.36
Others: From School	1	0.18
Total Respondents	557	100.00

The respondents were also asked how satisfied they were with the technology and software used for distance/online learning. As shown in Table 8, 48 or 8.6% of the respondent said that they were Not at all satisfied with the technology and software used for distance/online learning, 167 or 30% of the respondents answered that they were Slightly satisfied with the technology and software used for online learning, 257 or 46.1% of the respondents said that they are moderately satisfied, 72 or 12.9% of the respondents said that they are very satisfied and 13 or 2.33% said that they are extremely satisfied with the technology and software used for online learning.

Table 8. Respondents' Level of Satisfaction with Online Learning

Satisfaction level	Count	Percentage
Not at all Satisfied	48	8.62
Slightly satisfied	167	29.98
Moderately satisfied	257	46.14
Very satisfied	72	12.92
Extremely satisfied	13	2.34
Total Respondents	557	100.00

The respondents were asked how peaceful their learning space at home is. Table 9 summarizes these responses. The data showed that 86, or 15.44 % said that their learning environment is not at all peaceful; 196 or 35.19%, said that their learning environment is slightly peaceful, 224 or 40.22%, said that their learning environment is moderately peaceful; 42 or 7.54% said that their learning environment is very peaceful and nine among the respondents or 1.62% said that their learning environment is extremely peaceful.

Table 9. Respondents' Level of Satisfaction with Online Learning

Learning Environment	Count	Percentage
Peaceful	86	15.44
Slightly peaceful	196	35.19
Moderately peaceful	224	40.22
Very peaceful	42	7.54
Extremely peaceful	9	1.62
Total Respondents	557	100.00

Table 10 shows how often the respondents attend their distance/online classes. The result shows that 8, or 1.44% of the respondents said that they seldom attend online classes; 66, or 11.85%, said that they sometimes attend their online classes; 107, or 19.21%, said that they moderately attend their online classes, 140 or 25.13% very often attended their online classes and 236 or 42.37% are attending classes regularly or continuously. The results showed that most students are attending online classes regularly.

Table 10. How often do respondents attend distance/online classes?

Frequency of Attendance	Count	Percentage
Not often	8	1.44
Sometimes	66	11.85
Moderately often	107	19.21
Very often	140	25.13
Always	236	42.37
Total Respondents	557	100.00

The respondents were also asked how much time they spend on distance/online learning daily. Table 11 summarises these data. The results showed that 87, or 15.60%, of the respondents said that they spend 1-3 hours each day on online classes, 221 or 39.70%, said that they spend 3-5 hours each day on online classes, 185 or 33.20% said that they spend 5-7 hours each day on online class and 64 or 11.50% said that they spend 7-10 hours each day on online class. The results showed that the majority spend an average of 3-5 hours daily attending an online class.

Table 11. Time spent on distance/online classes

Time Spent	Count	Percentage
1-3 hours	87	15.60
3-5 hours	221	39.70
5-7 hours	185	33.20
7-10 hours	64	11.50
Total Respondents	557	100.00

The respondents were also asked if they were given enough time to complete and work on their assigned tasks and assignments. The results showed that 362, or 65.00% of the respondents, said that they were given enough time to do the task and 195, or 35.00% of the respondents, said that they did not have enough time to do or accomplish the tasks and assignments given to them by their teachers, as reflected in Table 12.

Table 12. Time is given to students to complete their tasks and assignments

Enough time?	Count	Percentage
Yes	362	65.00
No	195	35.00
Total Respondents	557	100.00

The researcher also assessed how students cope with work and compliance with tasks and assignments. The result was summarized using Table 13. The data shows that 19, or 3.40%, of the respondents, said that they ask for help from their subject teachers; 181 or 32.50%, said that they ask for help from their classmates; 282, or 50.60% of the respondents said that they do online research and manage their time well, 14 or 2.50% of the respondents said that they ask family members who can assist the students and 61 or 11.00% said that they find it hard to cope with the work and compliances. The result shows that most students prefer to ask their classmates for clarification or do online research independently.

Table 13. How do students manage to cope with their tasks?

Coping Mechanism	Count	Percentage
I ask for help from my teachers	19	3.4.00
I ask for help from my classmates	181	32.50
I do online research and manage my time well	282	50.60
I asked family members who could assist me	14	2.50
I am finding it hard to cope with the work and compliance	61	11.00
Total Respondents	557	100.00

The respondents were also asked about their perception of how manageable time spent in distance/online learning is. Data in Table 14 shows that 18 or 3.20% of the respondents said their time could be more manageable. 171, or 30.70%, said their time spent in an online class is slightly manageable. 310, or 55.70% of the respondents, said it is moderately manageable, while 51 or 9.20%, said their time is very manageable. In contrast, 7 or 1.30% said the time spent in an online class is extremely manageable.

Table 14. Perception of students on the manageability of time in distance/online learning

How manageable is the time spent in Online class	Count	Percentage
Not at all manageable	18	3.20
Slightly manageable	171	30.70
Moderately manageable	310	55.70
Very manageable	51	9.20
Extremely manageable	7	1.30
Total Respondents	557	100.00

The students were then asked about their challenges during distance/online classes. Figures 2 and 3 highlight the common challenges faced by students daily.

Figure 2 shows the response of students and how they rank the challenges they met. Among the challenges that were mentioned at the start of this discussion, unstable internet ranked 1, followed by the difficulty of understanding the teacher during the discussion, which is a by-product of the instability of the internet as the students could not hear the discussions or the lesson properly is difficult to digest. Students also need help understanding the recorded video lessons. The majority complain that there are too many tasks to comply with, which are difficult to perform due to the limited resources. Some respondents feel demotivated since the teacher is not accommodating in queries and does not respond to messages. Other challenges identified were power outages, noisy environment, household chores which may conflict with the schedules of online learning and the travel time from the student's house and the boarding house to attend distance/online class.

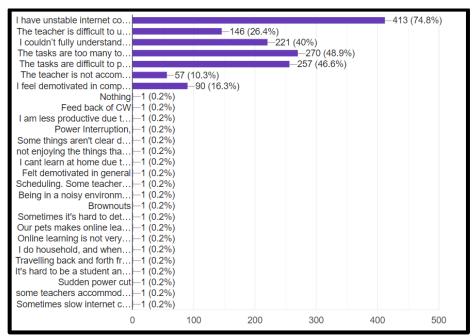


Figure 2 Challenges student encounters in distance/online learning

Figure 3. Challenges encountered by the students in distance/online learning.

Among the respondents, 4 or 0.70% agreed that the teachers are not helpful in online classes; 55, or 10.00%, said that the teachers are somewhat helpful in online exams; 262, or 46.60%, agreed the teachers are moderately helpful in online assessments, 198 or 35.70% agreed the teachers are constructive in online classes, and 38 or 6.80% agreed that the teachers are extremely helpful in online classes.

Table 15. Perception of Students on Teachers' Helpfulness in Distance/online learning

Teachers in online learning are helpful to students	Count	Percentage
Not at all helpful	4	0.70
Slightly helpful	55	10.00
Moderately helpful	262	35.70
Very helpful	198	35.70
Extremely helpful	38	6.80
Total Respondents	557	100.00

A school/university's ability to provide distance/online learning resources is shown in Table 16. About 9.90%, or 55 of those surveyed, indicated that schools/universities are slightly helpful in providing learning resources to

students; 203, or 36.40%, confirmed they are moderately helpful to the learners; 242 or 43.40%, confirmed the school/university is constructive in providing learning resources for distance/online learners, and 55 or 9.90% confirmed it is extremely helpful in providing learning resources for distance/online learners.

Table 16. Perception of school/university's helpfulness in providing learning resources

Schools/universities help provide learning resources for distance/online learning to their students	Count	Percentage
Not at all helpful	0	0.00
Slightly helpful	55	9.90
Moderately helpful	203	36.40
Very helpful	242	43.40
Extremely helpful	55	9.90
Total Respondents	557	100.00

On the perception of teachers' considerations on tasks and compliance requirements, 438 out of 557 agreed that the teachers set a reasonable deadline for tasks and activities. 378 of the 557 respondents testify that teachers still accept late submissions. However, they deducted points from the 157 respondents who testified that teachers accept late submissions with no deductions. The majority also confirmed that teachers encourage collaboration and cooperative learning. A minority of 27 respondents, however, experienced that the teachers do not give any consideration at all. These results are shown in Table 17.

Table 17. Perception of Teacher's Considerations of Tasks and Compliance Requirements

Perspectives on tasks and compliance requirements	Rank
Teachers set a reasonable deadline for tasks and activities	1
Teachers accept late submissions but deduct points.	2
Teachers encourage collaboration and cooperative work with classmates	3
Teachers accept late submissions with no deductions.	4
Teachers do not give any consideration at all.	5

Table 18 showed that 88, or 15.60%, of students did not consider distance/online learning to be effective; 169 or 30.30%, of students, considered it slightly effective; 262 or 47.30%, moderately effective; 33 or 6.00% considered it as very effective, and 5 or 0.90% thought it as highly effective.

Table 19 shows that 160% or 2.90% of students need to learn something through distance/online classes, while 181 or 32.2% are learning inadequately. 269 or 48.40% of students are learning what they need to,

while 85 or 15.40% of students are learning rather much through distance/online classes. Only 6 or 1.10% of the students attest that they learn much through distance/online classes.

Table 18. Students' experience with distance/online learning

Distance/online learning level of effectiveness	Count	Percentage
Not at all effective	88	15.60
Slightly effective	169	30.30
Moderately effective	262	47.30
Very effective	33	6.00
Extremely effective	5	0.90
Total Respondents	557	100.00

Table 19. Amount of learning gained in distance/online learning

Amount of learning distance/online learning	gained	in Count	Percentage
Not at all		16	2.90
Little		181	32.20
Some extent		269	48.40
Rather much		85	15.40
Very much		6	1.10
Total Respondents		557	100.00

Because of this finding, the results highlight the significance of face-to-face communication in distance/online learning for students. For students to learn and be motivated, verbal interactions between teachers and students are essential.

Table 20 indicates that 4, or 0.70 % of respondents, believed face-to-face virtual communication is unimportant, while 45 or 8.20% felt it is somewhat essential. 130, or 23.20%, feel it is moderately important; the majority, comprising 199 or 35.90% of the respondents, feel it is vital, and 179 or 32.14% say it is crucial.

Table 20. Importance of face-to-face virtual communication in the distance/online learning

The importance of face-to-face virtual	Count	Percentage
communication		
Not at all important	4	0.70
Slightly important	45	8.20
Moderately important	130	23.20

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Very important	199	35.90
Extremely important	179	32.14
Total Respondents	557	100.00

However, when asked about the frequency of their one-on-one virtual discussions with their respective teachers, most respondents responded that they only interact with their teachers sometimes or occasionally. Many respondents have never had a one-on-one interaction with their teachers. This acquaintance only proves that the communication line between the teachers and the students is close to the reality of traditional face-to-face classes where students are too shy to approach their teachers for consultations. Details on the frequency of one-on-one virtual discussions are tabulated in Table 21.

Table 21. Frequency of one-on-one virtual discussions between students and teacher

Frequency of one-on-one virtual discussions between students and teacher	Count	Percentage
Never	155	27.80
Occasionally	124	22.60
Sometimes	176	31.60
Often	90	16.10
Always	12	2.10
Total Respondents	557	100.00

The researchers asked the respondents for opinions to explore the best distance/online learning method. The majority of them chose online asynchronous methodology. This result may be because the internet infrastructure could be more stable, and the students can work independently. On another note, the second group of respondents still choose the online synchronous methodology despite their challenges. These students still prefer the interaction they get from the online discussions provided by the teachers. Some prefer printed modules, and a few mentioned that the methods suggested could be better. Others suggest a combination of methodologies. Table 22 highlights these findings.

Table 22. Perception of the Best Distance/Online Learning Methodology

Distance/Online Learning Methodology	Count	Percentage
Online Synchronous	183	32.85
Online Asynchronous	279	50.09

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Printed Modules	32	5.75
None at all	37	6.64
Others	26	4.67
Total Respondents	557	100.00

he final question asked from the respondents to assess the effectiveness of the methodology implemented in this pandemic is their overall learning experience compared to the traditional face-to-face learning in school. The majority felt that distance/online learning is somewhat worse than face-to-face learning in school, while some attested that it is much worse than face-to-face learning in school. 61 out of 557 respondents believe it is the same as face-to-face learning in school, while 31 said it was somewhat better than face-to-face learning in school. Only a handful of students believe it is much better than face-to-face learning in school. Table 23 details these findings.

Table 23. Student's Overall Experience with Distance/Online Learning

Overall Experience with Distance/Online	Count	Percentage
Learning		
Much worse than face-to-face learning in school	158	28.37
Somewhat worse than face-to-face learning in		52.78
school	294	
Just the same as face-to-face learning in school	61	10.95
Somewhat better than face-to-face learning in		5.57
school	31	
Much better than face-to-face learning in school	13	2.33
Total Respondents	557	100.00

Conclusions

Based on the initial results, the following conclusions were drawn:

 Based on the findings, most students who participated in the survey belong to technical programs such as engineering and computer studies. This result is because the participating institutions mainly offer technical-related programs. The most significant number of responses came from third-year students, while the most negligible one came from fifth-year students. This finding concludes that thirdyear students are greatly affected by the changes brought about by distance/online learning and were more open to participating in the survey, in which most are female. The participating institutions mostly implemented a combination of online synchronous and asynchronous modalities in their teaching delivery. The result showed that most students are moderately satisfied with how their institutions deliver their online classes. The numbers also showed that most students need a stable internet connection and use a smartphone as their learning device. Further, although some do not have a conducive learning space at home, the majority were able to study in a moderately peaceful environment. Hence, the resilience and determination of the learner towards learning are tested in this aspect of distance/online learning.

- The challenges encountered by students in the conduct of 2. distance/online learning vary and start with the conduciveness to learning of their environment, instability of the internet connection during distance/online learning and the limited resource or device for learning as a number of them share devices, while most use a smartphone. This situation challenges visual learners' comprehension since smartphones have smaller screen sizes than tablets or laptops. The time spent by each learner also creates a challenge since the students need help managing their time with too many tasks to comply with. Furthermore, since this is a distance/online class, all performance tasks require longer online time. An unstable internet connection makes balancing lesson comprehension and task compliance challenging. Hence, it is vital to create micro lessons that will meet the lesson's objectives and can be performed quickly so the students can manage their time among the various courses they have for the semester.
- 3. Despite the findings that there are too many tasks to comply with, most respondents believed that the teachers are moderately helpful and that they set a deadline for tasks and activities. There is also evidence that teachers still accept late submissions with or without point deductions. Teachers also encourage collaboration and cooperative learning among the students. A handful, though, attests that the teachers do not give any consideration at all. Moreover, according to the respondents, there is no evidence that schools and universities need to provide students with learning resources for distance/online learning. Therefore, the schools/university is committed to providing quality education amid the pandemic.
- 4. Students have mixed opinions on the essence of effectiveness and the extent of learning they experience through distance/online education. The results provided information on what schools and universities must do to effectively deliver distance/online learning to their students.

Recommendations

Based on the findings and conclusions, the researchers enumerate the following recommendations for schools and universities to consider when delivering quality education through distance/online learning:

- 1. Conduct an assessment of the student's readiness for distance/online learning.
- 2. Align the teaching-learning modality to the demographic profile of the learners.
- 3. Train the teachers on new tools and strategies that can be used for distance/online learning.
- 4. Monitor student performance regularly to be able to identify technologically challenged learners.
- 5. Implement regular virtual consultations and follow-ups for students struggling with the lessons.
- 6. Provide immediate feedback to students for every task or activity they comply with. These responses will ensure regular interaction between the teachers and the students.

Learn from the student's experience as well as the teachers'. Note the gaps that need to be bridged in every situation.

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