**Discussion of Results and Reflections**

This section presents and analyzes and interprets the data gathered through an online survey of selected fourth-year industrial arts students from Technological University of the Philippines A.Y 2022-2023 on how covid 19 experiences effects IPT Students

Covid 19 virus was spread worldwide, and many establishments, including schools, decided to close to avoid the virus. The government decided to continue the academic year by implementing online classes. Students and teachers have a huge adjustment to this new implementation that can affect their academic performance. The table below shows how covid 19 experience can affect for the 4th year IPT Students

**Table 2. *The Mean and Standard Deviation of Covid-19 Experiences in terms of; Interaction in Online Learning, Lack of Confidence in teaching, and technical difficulties***

|  |  |  |  |
| --- | --- | --- | --- |
| **Statement** | **M** | **VI** | **SD** |
| **Interaction in Online Learning** | | |  |
| **1. It’s hard for me to communicate with my students in online setting.** | **3.35** | **MA** | **0.66** |
| **2.  I find it difficult to monitor my students' progress.** | **3.60** | **A** | **0.93** |
| **3.  I find it difficult to monitor my students' progress..** | **3.52** | **A** | **0.82** |
| **4.  I listen to my students when they are speaking.** | **4.25** | **A** | **0.69** |
| **5.  I make sure that my students are listening during my discussion.** | **4.31** | **A** | **0.65** |
| **Limited Interaction** | | |  |
| **1. My students in class are not active nor participative.** | **3.35** | **MA** | **0.93** |
| **2. During recitation time, there are no volunteers among the class.** | **3.43** | **MA** | **0.96** |
| **3. I used a lot of ways to choose a student in class like using a roulette wheel or in alphabetical order.** | **3.83** | **A** | **0.72** |
| **4. As a student teacher, I utilized comment section to have at least an interaction.** | **4.12** | **A** | **0.63** |
| **5. Prior to my discussion, I create a nice atmosphere and encouraged the students to participate.** | **4.14** | **A** | **0.68** |
| **Lack of Confidence in teaching: *Self-esteem*** | | | |
| **1. I portrayed a shy-type person in class.** | **3.18** | **MA** | **0.95** |
| **2. I felt awkward whenever I speak/teach in class.** | **3.16** | **MA** | **0.97** |
| **3. I'm anxious about the quality of my voice.** | **3.54** | **A** | **0.84** |
| **4. I often stutter, when I am nervous during my discussion.** | **3.68** | **A** | **0.74** |
| **5. I am not well-prepared enough to discuss my topic (pre-demo or final demo) in class.** | **3.00** | **MA** | **1.09** |
| **Technical difficulties: Lack of materials resources** | | | |
| **1. I have limited resources for my discussion.** | **3.62** | **A** | **0.84** |
| **2. Its hard for me to get a reliable resources.** | **3.52** | **A** | **1.05** |
| **3. I tend to get information for my discussion on the internet.** | **3.97** | **A** | **0.78** |
| **4. I prefer to rely on the internet rather than buy a book for my resources.** | **3.70** | **A** | **0.96** |
| **5. I don't have budget to buy a book for myself.** | **3.64** | **A** | **0.81** |
| ***Internet Connectivity*** | | | |
| **1. It is arduous for me to sustain my needs for data/Wi-Fi.** | **3.56** | **A** | **0.71** |
| **2. My Gadget/s is/are in a bad condition.** | **3.20** | **MA** | **1.05** |
| **3. I lived in a place that has poor connectivity.** | **3.10** | **MA** | **0.99** |
| **4. My data/Wi-Fi provider often have a disrupting issues.** | **3.56** | **A** | **0.79** |
| **5. I always have poor connectivity during my discussion.** | **3.27** | **MA** | **1.02** |
| **Legends**  **M= Mean**  **VI= Visual Interpretation**  **SD= Standard deviation** | | | |

**Table 2. *The Mean and Standard Deviation of Covid-19 Experiences in terms of; Interaction in Online Learning, Lack of Confidence in teaching, and technical difficulties.***

As stated in Table 2 shows the covid 19 experiences of fourth-year industrial arts students in terms of *Interaction in Online Learning.* Most respondents answer Agree (A) that during in-campus teaching they have different difficulties and experiences while interacting with online learning. As the results, the total mean of this table was 3.08 while the standard deviation is 0.45 which implies experiencing covid 19 has an effect on IPT Students. While limited interaction 47 of the respondents answered Agree (A) That they have limited interaction while conducting online teaching. The total mean for this limited interaction was 3.88 while the standard deviation was 0.47 That can show the limited interaction for the IPT students who experience online learning. Additionally, respondents also experienced for having a lack of confidence in teaching majority of the respondents answered Agree (A) for having a lack of confidence while teaching, the total mean was 3.31 while the total standard deviation was 0.72 Which means they agreed that the effect of covid 19 experience can affect for the confidence of the respondents in teaching. Since the online class was already implemented, we also use technology or gadgets as our tools in the online class, but the 4th year students were also experiencing technical difficulties while attending online classes, majority of the respondents answered Agree (A) by experiencing technical difficulties the total mean was 3.69 while the standard deviation was 0.70 Which means the respondents experienced technical difficulties in the online class. In terms of Internet Connectivity a large percentage of the students Agree (A) that they experience internet connectivity in an online class similar to how they experience technical difficulties. As the results, the total mean was 3.34 while the standard deviation was 0.71 internet interruption has a huge effect on the online class that can affect IPT students while having in-campus practice teaching.

**Reflection:**

When Covid 19 strikes in our nation, everyone was getting affected including infrastructure, private companies, and schools. The government decided to stop schooling to avoid the spreading of the virus, and they recommend that everyone needs to stay at home, by doing that students can't attend a face-to-face classes. Since all the person required to stay at home, the government implemented a new method of learning, to continue the academic year in the online class, students before pandemic was already experiencing online learning, for some matter, but many students including teachers and admin were new to this method, and they have a huge adjustment for this online platform, students and teachers require to have gadgets and strong internet connection to hold an online class. During the implementation of online classes, students were experiencing some problems, and difficulties in the online platform including technical difficulties, slow internet connection, stress worrying about their academic performance which can lead to low self-esteem and lack of confidence also worrying about their health that can cause stress. Having this kind of experience from online classes because of covid 19 it can affect the students who take In Campus Teaching, (IPT) since they will hold practice teaching online they can experience the following problems or difficulties that we present on our survey, These kind of problem can effect for the learnings, and performance during practice teaching.

**Conclusion:**

The researchers surveyed 48 respondents in the College of Education Major in Industrial Arts, enrolled at the Technological University of the Philippines. All of the respondent is from BSIE-IA and the majority in terms of age are 19-59 years old (100%), the students of the College of Industrial Arts they are agree that covid 19 experiences can affect IPT students in terms of Interaction in Online Learning, Lack of Confidence in teaching, and technical difficulties**.**However, students also agree that covid 19 experience can affect IPT students in terms of teaching methods. In the total mean, the students of the College of Industrial Education majoring in Industrial arts have experienced some problems and difficulties while taking In Campus Teaching on an online platform because of covid 19 pandemic.