



Research on the Effectiveness of Traditional Learning Vs E-Learning

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Abstract

This research paper is to compare and contrast the two most implemented learning methods which are traditional and e-learning to measure its effectiveness. Traditional learning has always been in use but e-learning gained more popularity during COVID-19. There are merits and demerits of both learning methods but the idea of which learning method is better remains unknown. For an effective learning to take place it is essential to check and compare the effectiveness of both learning methods. Therefore in this research paper, the effectiveness of both learning methods are measured by comparing the preference, advantages, disadvantages and academic performance of the students in order to draw a conclusion of which learning method is better. This research was conducted based on the high school students and teachers of Gyalpozhing Higher Secondary school. Two separate sets of survey questions were prepared; one set for the students and the other for the teachers. All the questions related to E-learning asked in the questions were based on the E-learning conducted during the period of COVID-19. The results from these two sets of questions helped in finding the conclusion for this research that traditional learning is preferred and is more effective than E-learning.

Contents

1	Research Overview	1
1.1	Introduction	1
1.2	Objective	2
1.3	Scope and Limitation	2
1.4	Significance	3
2	Literature Review	5
3	Data Analysis and Discussion	7
3.1	Research Methodology	7
3.2	Results and Discussions	8
4	Conclusion and Recommendation	17
5	Acknowledgement	18
6	Appendix	20
6.1	For students	20
6.2	For Teachers	22

Chapter 1

Research Overview

1.1 Introduction

Traditional learning is a method of learning that take place in a classroom setting. There is a mentor who directs and controls the flow of information and knowledge. Classroom learning helps students and teachers know each other in a better manner. This allows teachers to know the students and evaluate their strengths and weaknesses in a better way. Moreover, it is a learning platforms where students can directly share their views and clarify their own doubts with the teacher.

Nowadays, technology is incorporated in the classroom more and more. However, in face-to-face instruction scenarios, the primary source of information is still the trainer[3].

E-learning is a technique or arrangement of learning by utilizing the electronic assets outside of the conventional homeroom. It is the technique for moving thoughts, information, data and aptitudes through web based stage. Various courses, projects or degree are conveyed totally on the web. From the start the E-learning was not acknowledged wholeheartedly however with the development and prominence of the web made individuals to acknowledge it.

E-learning started during the 1980s and 1990s as PC put together courses gave respect to independent plates. In the last part of the 1990s, such instructive courses came to be facilitated on interior organizations, and after that they were put on learning the executives frameworks (LMSs) in the last part of the 1990s [4](Hubackova, 2015) .In Bhutan, e-learning program got popular mainly to engage students during the time of COVID-19.However, the principles behind e-learning have been well documented in university level, and there is even evidence which suggests that e learning was started Long before the internet was launched but it was not recognized and use unless the situation forced to start.

1.2 Objective

The purpose of this research is to find the answer to the debate of which learning style is better, traditional or E-learning for the high school students and teachers. This research has answered the questions like:

- Which learning and teaching they prefer?
- Why and why not?
- What difficulties they face in both style of learning?
- Which learning style they find more effective?

The high schools and teachers are not very familiar with the usage of electronics for the learning and teaching purpose. Therefore, this research will be able to help them choose the right style of learning and teaching. To have an effective learning and teaching environment, it is very essential to have the knowledge of which learning and teaching style the students as well as teachers prefer.

Problem Statement

To study and measure the effectiveness of E-learning vs traditional learning. The controversial issue of which learning system is better has been in debate for many years. Therefore it is very essential to measure and research the level of effectiveness and convenient of both learning style. It is to help the students as well as teachers in order to improve teachers teaching style and student's learning and understanding ability. The increasing popularity of E-learning with the advancement of technology and global issues such as the COVID-19 has grabbed the attentions of thousands of high schools and universities toward it which caused us to research on this topic.

Hypothesis/ Possible Outcome

Traditional learning will be more effective and preferred by most of the students and teachers due to the high cost of data and lack of facilities in E-learning.

In Bhutan, the learning method followed from the past till now is traditional learning. With the passage of time and development of the country, a new method for learning came into view which is E-learning. E-learning also has numerous advantages as traditional learning but due to the lack of facilities and resources for this learning methodology and high cost of data, many don't prefer it. Traditional learning is preferred by many due to its familiarity, feasibility, availability of resources and better performance.

1.3 Scope and Limitation

The research was done on high school students and educators of the Gyalpozhing, Mongar. It is on the grounds that the secondary school understudies are not a lot of acquainted with the internet picking up utilizing gadgets. The examination will help the secondary school understudies and

the training divisions to choose the correct arrangement of learning. The expanding notoriety and the execution of the E-learning has redirected the consideration of thousands of understudies and teachers which lead us to explore on this point.

Limitation

I. Rejection of budget proposal by the college administration

A budget proposal was put forward for printing the 40 copies of survey questions and refreshment for the participating students and teachers but the proposal got rejected by the college administration. Then another proposal requesting the college for printing the survey questions was submitted and the proposal was accepted. 40 copies of survey questions with additional 11 extra copies were also printed from college but for refreshment, a sum of money was collected from team members.

II. Numerous formalities and COVID-19 protocols had to be followed

As the survey was conducted during COVID-19, many formalities to step out of the college campus and COVID-19 protocols had to be followed to conduct the survey. Time limitation was also given for visiting the Gyalpozhing high school for data collection.

III. Difficulty in scheduling the time to visit the Gyalpozhing high school for data collection

As the students and teachers of Gyalpozhing high school stayed in the school campus from 8:00 am till 3:30 pm, it was very tough to schedule a perfect time to visit the school. The plan to visit the school got canceled many times.

1.4 Significance

The significance of this research are :

1. Help students to analysis and know which learning method is suitable for them.

Each individual have a particular preferred way to learn. Some learn better through traditional learning where learning take place in a classroom. These students learn through interacting with teachers, friends and listening to the teachers' lectures but some don't. Some love studying by themselves; they learn and understand by exploring the internet and through online classes. Therefore, in order increase the academic performance of the students, it is necessary to understand the preferred way of learning of the students.

2. The overview of advantages and disadvantages of these learning methods are provided.

There are many benefits and drawbacks of both the learning methods. Through this research many students and teachers will be able understand the advantage and disadvantages of these learning styles.

3. Provide information for similar research.

The overview on both traditional learning and E-learning with respect to preference, advantages, disadvantages and academic performance provided in this research will act as the key

information for further research in similar topics.

4. Provides knowledge and guidelines to students, teachers and also to researchers on traditional and E-learning.

Beneficiaries

This research paper will benefit the :

1. Teachers

Through this research, the teachers will be aware of :

- Students' learning preference from these two learning techniques.
- Reasons that affect a student's learning and academic performance.

2. Students

Through this research, students will aware of :

- Their own preference of learning.
- The advantages and disadvantages of these two learning styles.
- Distractions and reasons that affect their learning and academic performance.

Chapter 2

Literature Review

As per the paper studied by [2]Ali Alghazo(2005).This paper addresses the viability of online teaching and learning method. This study was conducted to assist include to the body of knowledge with respect to whether online learning is viable. The Study was conducted by comparing the overall students' final grades of two sections of a course at College of applied Science and Arts(CASA). However the limitation of this study is that there is small sample size of both group, lack of additional information of the sample to insure similarities between the two group and the achievement data being only the final scores.Online education is effective and overcomes numerous limitations which particular students might have whether geographical, economical, social and personal.

A research by Dr. Wanwipa Titthasiri[6] was conducted to compare the level of performance of E-learning and traditional learning. The research was done using the experimental approach with two pairs of student groups in two semesters. These two groups of students were interviewed about their satisfaction in these learning techniques at the end of each semester and a comparison of their T-test was conducted to examine the differences of mean scores of the two learning strategies. The end result proved that the difference between these two methodologies did not exist. There are both equal advantages and some drawbacks to these methodologies but the students' achievement were the same.

In a research study done by the Mohammad Fadhil Odhaib(September, 2018)[5] on the efficiency of E-Learning and tradition learning revealed that e-learning is a better learning system than the traditional learning. It is observed that the E-learning provides much better results in multiple fields such as business and educational courses. E-learning offers various benefits; it is more convenient, students has the choice to learn from anywhere at any time, higher engagement level, less expensive, flexibility is high, improves written communication of the students, have the benefit to take lecture number of times in the form of audio-video recording of lectures and provides quick delivery of the lessons. The result of the research study was done based on survey and the quizzes which showed that the e-learning exhibited better preferences and performance than traditional learning. Consequently, the research study outcome also revealed the better grades of the students in e-learning than that of traditional learning. So, this research concluded that E-learning is more convenient and effective there by providing better result than traditional learning.

[7]E-Learning has entered the education as well as the corporate world in a major way and

it also complements the traditional delivery methods. E-learning can be viewed as an alternative to the face-to-face teaching method or as a complement to it. Effectiveness of education system depends on the level of quality it displays. Traditional learning and E-Learning have their own limitations. Learning provided through Information Technology(IT), to some extent ensures high quality learning by providing necessary information at a convenient place and suitable time. In this research paper, its is clearly observed that E-Learning emphasizes on quality and effective presentation of information and its also studies the effectiveness of e-Learning as it relates to the e-Learning experience of students undertaking higher education. Moreover, the study deals with evaluating the effectiveness of e-Learning across gender, course and city.

There are number of research studies to suggest that E-Learning can definitely improve the performance of the students.[7] According to Monica Trakru and Tapan Kumar Jha the research that was conducted in institutes offering higher education in New Delhi and Ahmadabad (India). The institutes have been imparting education to the students through E-Learning along with the formal class room teaching. They have conducted research using a stratified sampling technique to collect the data. The sample consisted of 120 students, 60 students from Delhi and 60 from Ahmadabad. Out of the 60 students sampled in each city 30 students were pursuing their masters in business administration and 30 were pursuing their masters in computer application. They have analyzed the data using t-test and z-test and by the end of their research they have concluded that in contemporary education system it is important for institutes to use an online method which provides flexibility to the students and also boost their learning. The effectiveness of e-Learning does not change with the course the student is pursuing, its does not vary with the city as they have conducted their research on the developed cities. It is likely that the results may differ in case if the samples were collected from developed and underdeveloped cities.

Chapter 3

Data Analysis and Discussion

3.1 Research Methodology

Research method

This research was to study and measure the effectiveness of E-Learning Vs Traditional learning. To measure the effectiveness of both learning method, Quantitative and Qualitative approach was used.

Data collection

The data was collected through survey for both teachers and students. Two separate sets of survey questions were prepared; one set for the students and the other for the teachers.

Sampling method

This research was based on stratified sampling method because the data was collected from Gyalpozhing high school teachers and students only. We have collected 30 samples from students and 10 from teachers of Gyalpozhing high school.

Data analysis techniques and tools

Data analysis technique in this research was based on visualization and graphs. The tool used for data analysis was excel.

Budget

In this research, data was collected through survey because the google/online questionnaires was not possible and instead the questions had to be printed. therefore, for printing and refreshments some budgets was required .

3.2 Results and Discussions

The data are documented and analysed based on three separate areas ; preference of learning , performance of the students and advantages and disadvantages of the two learning methods to measure the effectiveness of traditional learning vs e-learning.

Measurement of Effectiveness of both the styles in terms of learning and teaching preference.

Learning form	Number Of Teachers	Percentage%
Traditional Learning	9	90
E-Learning	1	10
Total	10	100.00

Table 3.1: (Survey for teachers) The learning method preferred by the teachers for their students

For this research, we wanted to know which form of learning method from the provided possible options did the teachers of Gyalpozhing high school prefer for their students. The possible options and the responds are presented in Table 3.1. The responds were in accordance with our predictions. The teachers being more familiar with traditional learning, most of the them chose traditional learning over E-learning and only one teacher chose E-learning.

Learning form	Number Of Students	Percentage%
Traditional Learning	27	90
E-Learning	3	10
Total	30	100.00

Table 3.2: (Survey for students) The learning method preferred by the students

From the given two options; traditional learning and E-learning, most of the students preferred traditional learning. More than three fourth of the students were in favor with traditional learning and only three students were interested in E-learning.

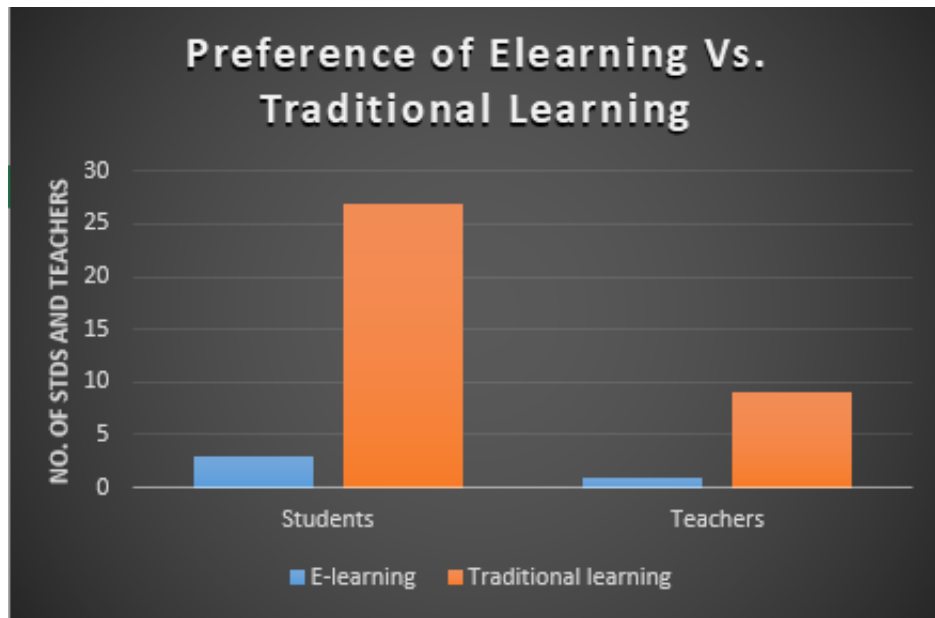


Figure 3.1: Preference of E-learning Vs Traditional Learning of students and teachers.(graph for table 3.1 and 3.2)

Conclusion drawn from table 3.1 and 3.2 : From the data in the above two tables, it is known that 90 percentage of both students and teachers prefer traditional learning as the better learning system than E-learning. So, in terms of preferences in learning from the two learning methods, traditional learning proves to be more effective by both students and teachers.

Measurement of Effectiveness of both the styles in terms of students performance.

Type of Question	Number Of Teachers	Percentage%
Satisfactory	6	60
Good	2	20
Very Good	1	10
Outstanding	1	10
Total	10	100

Table 3.3: (Survey for teachers) The level of performance of the students in E-learning

From the data in Table 3.3 we can see that the level of performance of most of the students in E-learning is just satisfactory. Out of 10 teachers, 6 of them believed that their students' performance level in E-learning was not even good but only at a satisfactory level. The 20% of the teachers said that their students' level of performance was good, 10% said it was very good and another 10% claimed that it was outstanding. From this data from teachers, it can be known that the level of performance of the students in E-learning is not very good.

Type of Question	Number Of Teachers	Percentage%
Satisfactory	1	10
Good	1	10
Very Good	8	80
Outstanding	0	0
Total	10	100

Table 3.4: (Survey for teachers) The level of performance of the students in Traditional learning

From the data in Table 3.4 we can see that the level of performance of the most of the students in Traditional learning is very good. Most of the teachers were satisfied with the level of performance of their students in traditional learning. Out of 10 teachers 8 rated the level of performance of their students as very good. 1% of the teachers claimed that their students' performance was good and another 1% voted for satisfactory but none voted for outstanding. As, maximum number of teachers voted the performance of students as very good in traditional learning, that is why it can be said that the performance of the students in traditional learning is better than that of E-learning.

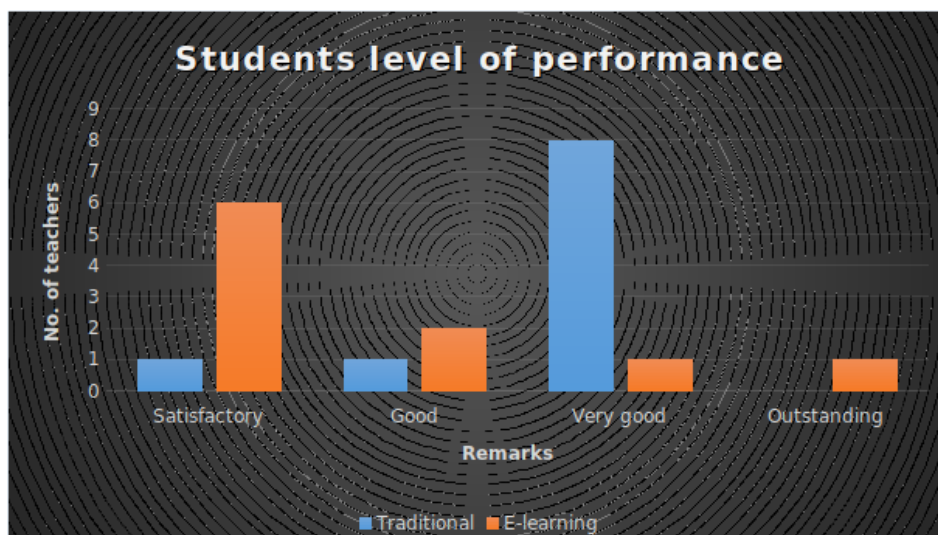


Figure 3.2: Students level of performance done by teachers(graph for table 3.3 and 3.4)

Type of Question	Number Of Students	Percentage%
Satisfactory	14	46.666
Good	12	40
Very Good	4	13.333
Outstanding	0	0
Total	30	100

Table 3.5: (Survey for students) The level of performance of the students in E-learning)

From the data in Table 3.5 we can see that the level of performance of most of the students in E-learning is again only satisfactory, 6 students were just satisfied, 40% of the students performed good, around 13% of the students did very good and none of the students performed at an outstanding level. From the students' data also it can be said that the level of performance of the students in E-learning is only at a satisfactory level.

Type of Question	Number Of Students	Percentage%
Satisfactory	0	0
Good	15	50
Very Good	12	40
Outstanding	3	10
Total	30	100

Table 3.6: (Survey for students) The level of performance of the students in traditional learning

From the data in Table 3.6 we can see that the level of performance of half of the students which is 50% in traditional learning is good. 40% of the students voted that their performance in traditional learning was very good and none voted their performance as just satisfactory. From this data, it is clear that the performance of the students in traditional learning is better than E-learning.



Figure 3.3: level of performance

Activities in Traditional learning	Number Of Students	Activities in E-learning	Number of Students
Test	12	Test	2
Assignment	13	Assignment	12
Quiz	3	Quiz	2
Examination	17	Examination	0
None	0	None	14
Others	0	Others	0
Total	45	Total	30

Table 3.7: The performance of the students in different activities

From the data in table 3.7 it is known that in every activity the students have performed better in Traditional learning than E-learning. From all of the activities in traditional learning, the students performed better in examination, assignment, test and quiz respectively. From all of the activities in E-learning, the students performed better in assignment only.

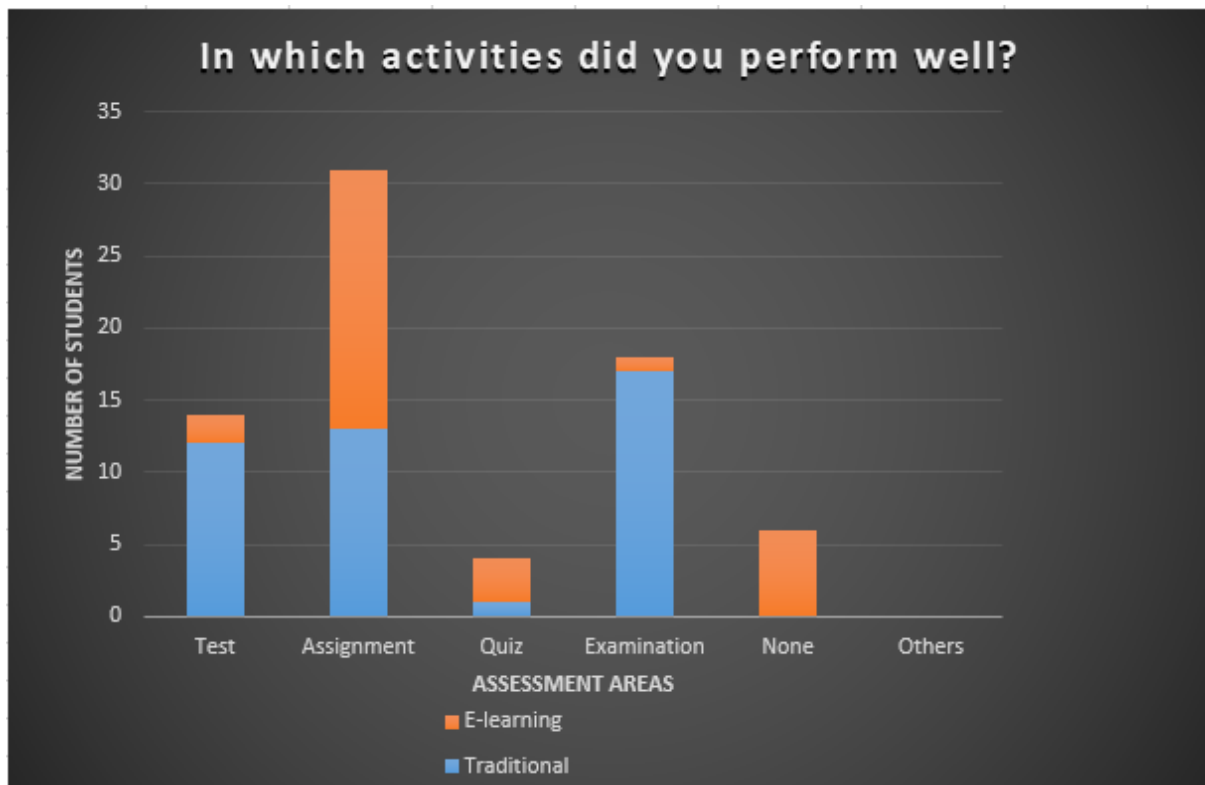


Figure 3.4: Comparison of different Activities in E-learning and traditional learning

Conclusion drawn from table 3.3,3.4,3.5,3.6 and 3.7 : Data from table 3.3 and 3.6, it is clear that the level of performance of the students in traditional learning is very good. Data from table 3.4 and 3.5, it is known that the performance of the students in E-learning is not very good and is only at a satisfactory level. When comparing these four table it is clear that the level of performance of the students in traditional is far more better than that of E-learning. The performance of the students in traditional is already good but the data from table 3.7 also proves that the students performed better in all the activities in traditional learning as well. Therefore it can be concluded that in term of performance of the students, traditional learning is more effective.

Advantages of Traditional learning	Teachers' vote	Advantages of Traditional learning	Teachers' vote
Better performance	2	Easy and fast coverage of syllabus	3
Face-to-face interaction	8	Parent involvement	2
Easy approach to teachers	1	Students responsible for their own learning	3
Available resources	1	Exploring beyond classroom learning	3
Immediate feedback	5	Tasks saved for future records	1
Fast syllabus coverage	1	Easily accessibility to resources	2
Good guidance	2	Easy to teach	2
fast doubt clearance	1		
Effective teaching and learning	2		

Table 3.8: (Survey for teachers) The advantages of both the learning methods

From the data in table 3.8 we know that there are more advantages of traditional learning over E-learning. The teachers were able to list down more advantages of traditional learning than E-learning. Total of 9 different advantages were listed for traditional learning and 7 for E-learning. This proves that traditional learning has more advantages than E-learning.

Disadvantages of Traditional learning	Teachers' vote	Disadvantages of E-learning	Teachers' vote
Difficult to manage the classroom	4	Failure to submit on time(Bad time management)	4
Slow syllabus coverage	2	Lack of facilities	3
One sided teaching	2	Not user friendly	1
Less learning	1	Lack of full attendance	1
Intervention	1	Low performance	1
Less guidance due to large class size	1	Cannot authentic the students' learning	2
		Lack of face to face interaction	3
		No immediate feedback	2
		Difficult to be on track with the syllabus	1
		Brief and compact syllabus coverage	1
		Internet problems	3
		Late responses	2
		Less participation	1
		Economic and emotional impact on parents	1
		Expensive	1

Table 3.9: (Survey for teachers) The disadvantages of both the learning methods

From the data in table 3.9 we know that there are more disadvantages of E-learning over traditional learning. The teachers were able to list down more disadvantages of E-learning than traditional learning. Total of 15 different disadvantages/challenges were listed for E-learning and only 6 different disadvantages/challenges were listed for traditional learning which is far less than that of E-learning

Disadvantages faced in Traditional learning	Students' vote	Disadvantages faced in E-learning	Students' vote
Lack of confidence to ask questions	17	Expensive	2
Lack of experienced teachers	7	Lack of facilities	7
Uncomfortable and exhausting	7	Confusing	4
		Bad time management	16
others	0	Others: Distractions(movies and social media)	1

Table 3.10: The performance of the students in different activities

From the data in table 3.10 we know that the most common challenge faced by the students in traditional learning is the lack of confidence to raise their voice to ask question and doubts. And the common challenge faced by most of the students in E-learning is not able to manage their time properly which seems to cause difficulty in learning.

Conclusion drawn from table 3.8, 3.9 and 3.10 : Data from these three tables makes it clear that there are more advantages of traditional learning and more disadvantages of E-learning. Therefore, it can be concluded that traditional learning is more beneficial and is proven to be more effective than E-learning in terms of advantages and disadvantages as well.

Chapter 4

Conclusion and Recommendation

This research attempted to test the following hypothesis 1.2:

Traditional learning will be more effective and preferred by most of the students and teachers due to the high cost of data and lack of facilities in E-learning.

The result from the data analysis proves the above hypothesis to be correct but it was not mainly because of the high cost of data and lack of facilities but mainly due to bad time management. Most of the students and teachers did not prefer E-learning due to the challenges faced such as lack of facilities, internet problem, cannot authenticate the students' learning, no immediate feedback, lack of face to face interactions and especially due to bad time management(Failure to submit on time). Traditional learning is proven to be the better form of learning method in terms of preference, advantages and performance. Most students and teachers preferred traditional learning over E-learning due to its face to face interactions, immediate feedback, good guidance and better performance. Students have performed better in all the activities in traditional learning far better than that of E-learning. From the data collected and analysed, it is proven that in terms of all three areas; preferences of learning, performance of the students and advantages and disadvantages of both the learning styles, traditional learning is proven to be more effective than e-learning. Therefore, this research can be concluded by saying that traditional learning is far more effective than E-learning.

Recommendations

The recommendations from this research are :

1. Students should be provided with more guidance in E-learning.
2. Students should be aware of how to manage their own time.
3. E-learning is better for students to make them responsible for their own learning

Chapter 5

Acknowledgement

For the success of this research, we would like to sincerely thank our two research tutors, Sir Mulualet Teku and Sir Tashi Phuntsho for the guidance and support. We also would like to thank the college administration for printing our research questions and lastly, we are very thankful to the teachers and students of Gyalpozhing Higher Secondary School for actively participating in our research.

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Chapter 6

Appendix

6.1 For students

Research on Effectiveness of E-learning vs Traditional learning.

We are the college students of Gyalpozhing College of Information Technology and we are doing a research on the the Effectiveness of E-learning vs Traditional learning. This survey questions does not contain filling of any personal/private information. We would like be grateful if you all could cooperate and answer the questions honestly.

Questions related to E-learning should all be answered based on the experience of e learning during COVID-19. E-learning is a method of learning using electronic gadgets. Traditional learning is a method of learning which takes place inside the classroom.

Questions for Students:

1. Are you a high school student?
 - Yes
 - No
2. Which learning method do you prefer ?
 - E-learning
 - Traditional Learning
3. Why do you prefer the learning method that you have selected in Question2? You can choose more than one from the given options below:
 - Familiar
 - Feasible
 - More understandable

- More convenient
 - Good performance
 - Others :
4. Why haven't you selected the other learning method in question 2? You can choose more than one from the given options below:
- Not familiar
 - Difficult to understand
 - Not convenient
 - More doubts
 - Confusing
 - Others:
5. What is your level of performance in traditional learning?
- Satisfactory
 - Good
 - Very Good
 - Outstanding
6. What is your level of performance in e-learning?
- Satisfactory
 - Good
 - Very Good
 - Outstanding
7. What are the challenges faced in traditional learning?
- Lack of confidence to ask questions
 - Lack of experienced tutors
 - Uncomfortable and exhausting
 - Others:
8. What are the challenges faced in E-learning during COVID-19?
- Expensive
 - Lack of facilities
 - Confusing
 - Bad time management
 - Others:
9. Which E-learning platform did you use?

- WhatsApp
- Messenger
- Zoom
- Google Classroom
- Television
- Others:

10. How was e-learning conducted during COVID-19? You can choose more than one option.

- Test
- Assignment
- Zoom class
- Quiz
- Examination
- Others:

11. In which activities did you perform well?

- Test
- Assignment
- Zoom class
- Quiz
- Examination
- Others:

6.2 For Teachers

Research on Effectiveness of E-learning vs Traditional learning.

We are the college students of Gyalpozhing College of Information Technology and we are doing a research on the the Effectiveness of E-learning vs Traditional learning. This survey questions does not contain filling of any personal/private information. We would like be grateful if you all could cooperate and answer the questions honestly.

Questions related to E-learning should all be answered based on the experience of e learning during COVID-19.

Questions for Teachers:

1. Are you a high school teacher?

- Yes

- No
2. Which learning method do you prefer for the students?choose ONE.
- E-learning
 - Traditional Learning
3. Why do you prefer the learning method that you have selected in question 2? You can choose more than one option.
- Effective learning place
 - Perform
 - More feasible
 - Others:
4. what is your students level of performance in the following learning methods? Choose one option from both (a) and (b)
- (a) E-learning
- Satisfactory
 - Good
 - Very Good
 - Outstanding
- (b) Traditional learning
- Satisfactory
 - Good
 - Very Good
 - Outstanding
5. What are the challenges and advantages of traditional learning?
- Challenges:
 - Advantages:
6. What are the challenges and advantages of E-learning?
- Challenges:
 - Advantages:
7. Would you mind to share your opinion and experience in traditional learning and E-learning during COVID-19?
- Your opinion.....