

# **Effects of Online Education on School Students**

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**-: CERTIFICATE :-**

**Atharv Deepak Deshpande** has completed research project work titled “Effects of online education on school students” as part of partial fulfillment of T.Y.B.Com degree program of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon; Subject 605 b : Introduction to Business Research(Project). Academic Year 2020-21.

I certify that, this is the work done by Atharv Deepak Deshpande is as per guidelines provided in syllabus of T.Y.B.Com degree program of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

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## **-: Undertaking :-**

I Atharv Deepak Deshpande completed research project work titled “Effects of online education on school students” as part of partial fulfillment of T.Y.B.Com degree program of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon; Subject 605 b : Introduction to Business Research(Project). under the guidance of Dr. Rahul Kulkarni, Department of Commerce, B.P. Arts, S.M.A. Science and K.K.C. Commerce College, Chalisgaon. This is my genuine work and not presented elsewhere for any degree. I submit this undertaking to Head, Department of Commerce, B.P. Arts, S.M.A. Science and K.K.C. Commerce College, Chalisgaon.

Signature

Date :

Research Student

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# Chapter 1 .Introduction

- Human development can be called the development of intellect in the true sense. There is a historical reference to the development of intellect since man learned to walk on two legs. Man is intellectually different from other animals. Anatomy and needs are not very different, but reading, thinking, and being aware of existence can be experienced by man. Reading and thinking also need to be beautiful and pure, otherwise a person will fall prey to his impure thoughts. Man created education for all good and good experiences to happen in life. That education was born out of his inner motivation. As human beings we can easily handle so many different things and objects. Education is responsible for what science and physical development have made possible today.

Education is given in different ways and is also received. The experience of a great person becomes education and guidance for future generations. The thoughts of that person are expressed in words and we try to capture them. Education is changing according to the needs of the human race and it is being used in different ways.

Education takes place on an intellectual and mental level. In the past, a century ago, education was working towards social development. Education was all about the development of society and how to develop every element of society. Today science and technology have advanced so much that all knowledge can be maintained by one computer. Machines have started doing all the work of man. Then we have to think about how the importance of education will develop from here on out.

The development of science is a non-stop process. So education is also changing now. As a child, all children need to be literate. Every country is moving towards development only because of its literate people! The more literate the population, the more qualitative change we can bring about in the society. Every generation can be educated and do good for themselves and the society.

Now a days online learning education takes place over the internet. In this pandemic situation students started learning at online platform. Many educational systems changed in the pandemic situation and somethings affected student education life. Students were studying on black boards in the school but now they are used to white board on the white screen. Is often referred as “e- learning” among other term. However online learning is just one of the type of “distance learning”.

We all are facing problems related to health, finance, nowadays. In this pandemic situation some of people lost their jobs. Show the financial condition during these days is good as well as bad respectively. During the pandemic condition online education system started. With this helps schools where going on with the help of apps such as zoom, Google meet, YouTube and other. But this process of learning made some of the parents uncomfortable.

Parents who don't know how to operate the technology or parents whose financial condition is not stable such as labours they don't have any electronic item to attend the online School of their children. Some of the parents borrowed electronic item for the continuation of education. Education makes life easier to survive in the world. But if education system needs more than parents economical condition then it is impossible for them to educate their child.

**The right of Education Act 2009** also known as the RTE Act 2009 was enacted by the Parliament of India on 4<sup>th</sup> August 2009. This act came into effect on 1<sup>st</sup> April 2010 and made India one of the 135 countries to have education as a fundamental right for every child.

Basically education is a dynamic process. Education is the process of facilitating learning or the acquisition of knowledge, skills , values , morals ,believe and habits. Education can take place in formal or informal

settings and any experience that has a formative effective on the way one thinks ,feels or acts may be considered educational.

Education lies in the foundations of the nation. Providing knowledge to generations, inspiring them, teaching good principles and many more things which are making them honest ,kind, and leader for the future of country. Education in India is primarily provided by public and private schools. The quality of education is of utmost importance for its future prosperity. The country is currently in a youth bulge phase. India has the largest youth population in the world. India is now the world's fastest growing major economy. Show the quality of education towards youth generation in every state and village, this change could be a powerful engine of economic growth and development.

The Indian education system has made significant progress in recent years to ensure that educational opportunities are available to all segments of society. The school system in India has four levels -

- 1) Lower Primary            (Age 6 to 10)
- 2) Upper Primary         (Age 11 & 12)
- 3) High                      (Age 13 to 15)
- 4) High Secondary        (Age 17 & 18)

Education plays a key role in the development of human civilization. Since the ancient days, the method of learning is constantly evolving with time and is still going through numerous changes owing to the advancing technologies. All of us are quite acquainted with the traditional ways of

learning in which education is imparted within the walls of the classroom to a group of students. However, with the intervention of internet and digital technology, the online platform is currently in trend taking the place of brick and mortar classrooms. Benefitting a wide range of students at the same time across the globe, the modern educational system has completely eradicated the space limitation of a physical classroom.

As innovation has grown, so too has the manner in which we learn new abilities. Nowadays, due to pandemic many private and government schools have started online education due to the school being closed. In addition to completing the course, the doubts are also being cleared online.

Before these situations arrived it was always a big-time debate regarding which is better online classes or offline classes and now that almost all schools and colleges are using online modes for teaching, there are many points of view regarding the same, positive as well as negative.

With the help of science, we can get information about any place in one fell swoop, whether it is at home or not, with the help of internet only.

The advances that science has made can now be used in a large way in the field of education as well. As the world changes, so must we. In the current corona epidemic, every school, college has tried to provide online education as it does not want to stop the education of students.

The concept of online learning is not old to all of us. Online learning methods have been introduced in India for a long time. Not only have you used it a lot but you have adopted this online learning method as per the situation for your bright future.

But for those who are new to online education, there are many challenges. It also helped to solve those problems in time. Just as everyone's situation changed during this time, so did the change in education. We were not ready to adopt this teaching method early. In the beginning, there were many problems and many people opposed this. But it does not harm the health of their children, so many parents agree.

In the beginning, when all the banking transactions were gradually online, many people had problems. But with the passage of time, everyone started adopting the methods of online banking. And now more than fifty percent of people use online banking. If there is a change, it hurts at first but then everything becomes pleasant.

The same thing applies with e-learning. But the parents who paid their children's school fees by taking out a bank loan were facing a financial crisis. Bring electronic items like mobiles, tabs etc. to your children to attend online lectures. For many it was affordable, but for many it was unaffordable. But not wanting to stop their children's education, the parents also decided to change their minds and adopt this new method of education.

Given the current situation, '**education should continue even if schools are closed.**' It is in line with this policy of the state government that we have started the process of online education today, but teachers, students and parents are very confused about this. Therefore, it is very important to discuss both the positive and negative aspects of online teaching methods, considering whether they can really be an alternative to traditional teaching methods.

The main difference between online and offline learning is location. With offline learning, participants are required to travel to the school location, typically a classroom.

With online learning, on the other hand, the classes can be conducted from practically anywhere in the world. Students simply need to log on to the internet from their home to attend the classes.

The purpose of education is to acquire knowledge from all around and to develop our best personality out of it. Nothing else can be as useful as technology for this. Online education has taken the next step in development and opened up a wealth of knowledge for students and teachers. Zoom, Google Meet, Class Room and some are implementing this process of teaching offline through WhatsApp. An inquisitive, curious and innovative technological approach to learning something new was initially considered very nice and also convenient for the situation.

Both teachers and students may like the work-from-home online education method, but can digital education be a permanent cure, as it is an alternative in today's difficult times? Along with academic development, physical and mental development is also very important for the overall development of the student.

## **Phases of Educational Methodologies**

### **1) Ancient Education**

Where classes were given under tree or in an open area, without using any teaching aids, such as black boards, chalks. The Teacher used to teach students with practical examples.

### **2) Traditional Education System**

Traditional learning holds the use of conventional learning tools comprising of blackboards, chalks, books and pens. Confined within the walls of classrooms, students acquire education from teachers present in the classroom and get direct assistance from them in the time of inconvenience or doubts regarding the subject. Enrolled to

the institution for a specific term or period, the students attend classes every day.

### 3) Modern Education System I

With advent of technology, those boring blackboards were replaced by white boards and markers, and projectors were used to make teaching interesting.

Aligned With Audio Visual Display – As the learning was becoming complex, use of audio visuals, power point slides, digital boards was aligned with the other teaching pedagogies.

### 4) Modern Educational System II

Learning through different websites by the use of internet has arrived as the recent learning techniques. Overcoming the adversities associated with primitive teaching methodologies, modern education is imparting knowledge more effectively and more impeccably. Delivering knowledge through online platforms or websites, it has been able to attract a variety of not only students but also teachers to participate in technology-driven learning. Not constraining the deliverance to any kind of time limits or the number of students, the popularity and preferences of online teaching day by day.

As with most teaching methods, online learning also has its own set of positives and negatives.

Students were disciplined while in school. Listen carefully while teaching and write down what the teacher says. But now the children have become so smart that they attend school wearing uniforms and shorts.

Practical experience and demonstrations are very important for education. There is a dearth of demonstrations in online education. At school students study by observing physical objects but in this online learning animated video is used.

The practical touch of the material objects in the school makes them passionate about study. But online education lacks this. Which does not create excitement in the students. Apart from this, sitting in front of a mobile or laptop screen for hours causes mental and physical problems to the students. Physical problems such as headaches, eye irritation and fatigue, and mental problems such as irritability.

Due to the online learning method, children have to spend a lot of time in front of this screen. If they are only learning six hours in school, then they have to spend more than six hours at home for this online learning. Children who live in rural areas have to deal with many problems such as video interruptions and deafness due to network problems. There are many challenges that come not only to students but also to parents. I have chosen this subject to understand the problems of students as well as parents. So that I can understand that online learning methods are a curse or a blessing.

I would like to provide more information on the topic.

# **Chapter 2. Review of** **Literature**

A literature review discusses published information in a particular subject area, and sometimes, information in a particular subject area within a certain time period. A Literature review can be just a simple summary of the sources, but it usually has an organizational pattern and combines both summary and synthesis. A summary is a recap of the important information of the source, but a synthesis is a re-organization, or a reshuffling, of that information. It might give a new interpretation of old material Or combine new with old interpretations. Or it might trace the intellectual progression of the field, including major debates. While the main focus of research is to support one's argument, the focus of a literature review is to summarize and synthesize the arguments and ideas of others.

The Internet has made online learning possible, and many educators and researchers are interested in online learning courses to enhance and improve the student learning outcomes while battling the shortage in resources, facilities and equipment particularly in higher education institution. Online learning has become popular because of its potential for providing more flexible access to content and instruction at any time, from any place. It is imperative that the researchers consider, and examine the efficacy of online learning in educating students.

## E-learning

1. **“E-learning is the use of electronic media for a variety of learning purposes that range From add-on functions in conventional classrooms to full substitution for the face-to-Face meetings by online encounters” (Guri-Rosenblit, 2005).**

E-learning refers to a learning system that we can obtain through the internet using an electronic device. We also call it online learning or online education. The ‘E’ in E-learning stands for ‘Electronic.’ Hence, the original term ‘electronic learning.’ The word ‘online,’ in this context, means with an Internet connection or via the Internet. The term may also refer to a network that can provide knowledge and skills to one or more individuals. The network can provide the knowledge or skills either to everyone simultaneously or individually.

Simply, “E-learning is training provided via a computer or other digital device, allowing technology to facilitate learning anytime, anywhere.” When e-learning started, it was a new attraction for everyone. Over time, various colleges started publishing information about their courses all over the world. After the improvement of technology and learning system, online study became more popular. By the time the method of e-learning became popular, as mentioned above, every college started introducing its courses to make a name for itself in the world.

This enabled students from all over the world to take degrees from different colleges at home. Through this e-learning, teachers in India were able to teach students outside India. We started to introduce our art and culture through e-learning. They started getting information about each other’s culture. All this was also used to boost our India’s economic growth. Seeing the merits of their Indian teachers, American companies also started

hiring Indian teachers. This made it possible to acquire various knowledge through e-learning.

**2. M.D. Lytras and N. Pouloudi, “E-learning: Just a waste of time”, In Proceedings of the Seventh Americas Conference on Information Systems, pp. 216 -222, Aug. 2001.**

It is not easy to assimilate something new. In this current online learning process, not only students but also teachers have to put in extra effort. From the point of view of teachers, “how we teach” and from the point of view of students, the balance of “how we understand” is not maintained. Various apps for e-learning are available in the market today. But through this, students are neither being taught discipline nor are they developing physically. Somewhere or other the balance is deteriorating. Parents are also being deceived by various e-learning apps. So parents were a bit nervous when online learning started in school. But over time, that is likely to change.

This online method often exposed the system to brass. The inadequacy of knowledge, the mere appearance of teaching, does not mean that online teaching methods will continue in the future. Even though a coin has two sides, but one side is always heavier.

E-learning methods depend on many things. Such as education, students, technology, learning process, dynamic future and much more. It is important to have a joint effort.

Not everyone who is studying online understands this method. Most students understand what they are teaching when they are in front of the teacher. If there is a teacher in front, the children have a fear, a discipline. And in this online learning not a whole lot but a small amount of students are ignored. If parents, students and schools rely entirely on this online

method, higher education will be available but there is no doubt as to how much practical knowledge will be available.

Today we live in this society. If this online education system makes children sit alone, then what is the benefit of getting higher education? Man has comings and goings in the society, he has an identity. But if a man does not have a relationship with a man, how can that be? The advantages of online learning are many, but you can't ignore their disadvantages.

**3. S. Chee, "Distance education and e-learning in the digital age: Critical considerations", *Intelligent Virtual World: Technologies and Applications in Distributed World Environments*, pp. 289-308, 2004.**

It is equally important that we all have different skills as times change. The internet is the most important thing for computers, laptops, mobiles. With the help of internet, online learning has become more important today. This technology is in the pockets of today's youth. Songs in the ear, friends to chat on the phone and much more. This means that the students are addicted to this technology. How to involve the student in the teaching method is the skill of a teacher. But with this online method, the kids keep the camera off while teaching. But students who are addicted to this technology open various tabs and play games and chat while school is on. Information and communication technology offers a broad scope of sources for informal and non- formal learning.

Learning gates are different meaning for youngsters who grew up with an amount of information within reach. Bharti learning method app rowan to be highly effective at improving the academic knowledge of the students. However developing the communications skill of the students is and area of a neglected during online lessons. Due to the lack of face to face communication between student and teachers in an online setting ,the

students might find that they are unable to work effectively in a team setting. But there is a lack of confidence among the students as more attention is paid to theoretical than practical knowledge. Home schooling, tuition is not everything. Because while studying, learning requires an educational environment. Many students have to study under the street lights outside because of poor home conditions. Otherwise the children go to school early the next day and study.

There is not always a study environment at home. So the children go to school to study with one mind. But due to the method of distance learning, students have to study at home. Since most of the concepts are not understood online, special emphasis has to be laid on them. If the subject is not understood, the interest in it goes away. Then the interest in the study gradually disappears. This worries parents about their children's future. AS mentioned above, most students understand only when the teacher is in front of them. At first it was difficult for the students to adopt this online method but now they are trying to get used to it.

**4. G. Siemens, "Learning management systems: the wrong place to start learning", Elearnspace, 2004.**

The e-Learning methods currently practiced in education tend to make participating students undergo contemplation, remoteness and lack of interaction. As a result many of the students and teachers who inevitably spend much of their time online can start experiencing science of social isolation, due to the lack of human communication in their lives. Whenever children are harassed on the way to school, they are sent to school with nice stories.

There is a big blackboard in the school, good friends meet, teachers tell stories and they are lured and sent to school. But if this new beginning of

their life goes bad for some reason, then they are no longer interested in education. Living alone from the beginning, not talking to people, if it starts like that, then the students have to face a lot of things. His mind began to wander in the face of stress and negative thoughts.

Our neighbour's cousin who got 95 percent in the second got 50 percent in the third now. Why did that happen? In the early days of children, the screen of the mobile phone remained in their hands for a long time. Which made them crazy about games. Even though the teacher was teaching on the screen, the children did not pay much attention to that teaching. The same difference was seen in their results. When children cry, he is given a mobile phone to calm him down. And he was used to it. In the early days of education, if the students have a mobile screen in their hands for a long time, they will get used to it. Which may not be good for their future.

I don't think e-learning is of any use if it affects their childhood. It is not good for them to get infected at an early age. So starting e-learning at an early age can be a bad decision.

### E -Learner (student)

The children of the present age are very modern. If something new comes up, they try to absorb it quickly. They are trying to assimilate the current e-learning. Today's generation is techno-savvy. So they assimilate all the types related to technology as soon as possible. They are actively using technology to learn on multiple devices, and appreciate high-value, engaging, interactive, on-demand course materials and support, anytime and anywhere. Every generation has something new. Every child has the hope of learning something new according to the generation. As students

change from year to year, so does technology. Today's generation of children is hungry for new things.

Now technology has become an important part of their lives. And with this technology, kids are spending more and more time in front of this screen. This has made the difference in their health a part of their parents' concern. If a student is completely dependent on technology while still a student, he will not be able to do anything on his own. But with this medium of e-learning, students have to constantly sit in front of the screen and make maximum use of it.

Students are not able to focus on teaching more. So this effect is reflected in their study. Students are falling short of assimilating what teachers are teaching. Which shows a lack in their confidence. This is a preliminary step and students should be encouraged to study with confidence by taking timely measures.

## Health

Not only mental health, but they are also facing some health problems like eye strain, headaches and fatigue from seeing the screen for such a long time. Besides, sports education and extracurricular classes have also stopped.

There's a good side to online classes and a bad side too. For others, it has become monotonous, which has led to a rise in anxiety and hyperactivity among children. In this regard, Education World spoke with a few child experts to know why they think this is happening and how it can be addressed.

**Dr Kannan Gireesh, psychiatrist, psychotherapist and founder, Live Life Education says, “What they are lacking is peer-to-peer learning. Social learning is not happening as they do not have friends to talk to and build new friendships. Building friendships is very important especially in the lower age groups, which gives them security and self-esteem that gives them a sense of belonging.”**

Many children have become bored with online classes. Hence, what these students are doing is switching off the camera and are doing other activities. It's like a time pass for them. Not only mental health, but they are also facing some health problems like eye strain, headaches and fatigue from seeing the screen for such a long time. Besides, sports education and extracurricular classes have also stopped. As most of the parents are working and the child is all alone in the house, there is no way the children can interact with anyone.

As the pandemic drags on, it's clear that not all kids are alright. Schools should think about using the virtual learning environment to create a new relationship between teachers and children, not just one where kids can get help with maths, but where children are talking to teachers about what's going on & the focus is on their well-being & mental health.

Parents can support their children by actively listening, creating new routines, self-esteem and self-care by playing, talking and eating with them. Collaboration between schools, families, community leaders and health officials will be even more critical to support children's needs in and out of school.

Alongside the lack of social interaction, online class structure can affect teens and adolescents in a number of ways: They may feel heightened anxiety about keeping up to date with their school work. Other teens may experience difficulty concentrating or staying focused while at home.

Increasing eyesight problems with frequent headaches are attributed to prolonged screen time. In addition, increasing anxiety and depression due to home confinement along with sleep disorders are also on the rise. Obesity in children is on the rise either due to lack of outdoor physical activities or due to binge eating and easy availability of junk food at home. Children are losing their muscle mass and adding fat which is going to affect their growth. Research has shown that the more physically active a child is during the growing period the better is their physical and mental health for the next 3-4 decades of life.

Deficiencies of Calcium and Vitamin D: Apart from lack of physical activity, lack of sunlight exposure and poor diet also contributes to Calcium and Vitamin D deficiencies. Muscle cramps, spasms and strains/tears are common with trivial injuries / bad postures when a child is having severe deficiencies. Injuries: Increasing number of injuries in children in recent times is either due to trivial injuries or due to over-enthusiasm and desperation of being isolated at home. Every child wants to get outdoors and their fitness is significantly poor due to the lockdown.

## E- Teacher

Teaching face-to-face and teaching online are both teaching, but they are qualitatively different. In comparison, driving a car and riding a motorcycle are both forms of transportation, but they have enough differences to warrant additional training and preparation when switching from one to the other. The same is true when faculty move from the traditional classroom to the online classroom. Traditional teaching and now teaching in e-learning is also a test for teachers. Teaching directly from the blackboard to the whiteboard is also a bit of a challenge for them. Teachers

find it difficult to assimilate the technology that is easy for students to assimilate. The difference is due to the generation gap.

How to teach online? How to convince students of the point? This is where the teacher preparation begins. What point to teach today? This requires separate planning. Teachers do not need to make any special arrangements when students come to school. Everything was taught in a timely manner.

In the early days, it was more difficult for teachers to adopt this new e-learning method than for students. The teachers of today's generation have learned a lot. But it took a long time for the older generation to understand this method. It was easy for the teacher to build the student's confidence when he came to school. But what has the teacher got to do with the student through this online learning? I don't understand this.

The teachers used to motivate the students to participate in the school gatherings and various competitions, so that the children would have stage daring. And this would be the benefit for the future competitive exams for the children. Then the student does not want to be afraid to take part in any competitive exams. The method starts from the school, which is useful in the future.

Although the teachers had difficulty in learning this online method, they endured it to make the future of the students happy. And today they are trying to teach the students through this medium, which is really very appreciated.

## Learning – Traditional vs Modern

On March 22, 2020, the World Health organization declared COVID-19 a global pandemic. Following the speed with which COVID-19 spread to all parts of the world, and to contain the spread of the disease, most governments around the world, authorized unprecedented social containment measures to stem the tide. These measures among others required social distancing and the temporary physical closure of educational institutions. Educational institutions had to adopt a digital approach to instruction and student learning, dramatically transitioning traditional in-person classroom instruction to predominantly distance learning where teaching is provided remotely on digital platforms.

Distance learning, also known by various names such as distance education, e-learning, mobile learning, or online learning, is a form of education where there is physical separation of teachers from students during the instruction and learning process. The minimum technological requirements for successful distance learning include the acquisition of hardware such as a computer, mobile device, webcam, video conferencing applications such as Google meet or Zoom, and a stable internet connection.

What is at issue with distance learning in the COVID-19 environment is the lack of options for students to determine whether they want to take online courses or not, the lack of access to free technology hardware, software and internet services on campus due to social distancing, a lack of motivation to learn; the new course workload, adapting to unfamiliar technology for first time online student users and uncertainty about the future among others. Making distance learning work for all students is challenging. The best tools can be in place, but without equitable access by all students to the tools, adequate preparation time and training for faculty, and the adaption of existing curricula, or the development of brand-new course syllabi, it will be difficult to replicate the in-person learning

experience, online. Consequently, some questions that have arisen with distance learning is whether it offers the same value as learning in a classroom, and whether it helps students to imbibe knowledge as they would if they were in a classroom? While these questions are relevant, there are additional significant issues that schools, have to consider, such as how to assist students without reliable internet access or technology to participate in digital learning. There are so many things we have to consider in online education.

### Summation

This chapter presents a review of relevant research studies relating to the present study area. From the above reviews of both empirical and conceptual work, it is clear that different authors have approached various attributes of e-learning in different ways in varying different levels of Analysis. The review of literature has been confined to research reports Collected from various journals, Doctoral thesis and the remaining reviews were collected from different project report and websites. Moreover, the review of related studies has helped me to conceptualize the Present study and to design the research methodology.

# Chapter 3. Research Methodology

## Abstract

Covid-19, as a global pandemic, has called for social distancing. This is forcing people to sit at home, and sitting at home is a stressful situation. That is why it is important to take the help of online learning to keep people engaged and keep them away from mental stress. Online learning can benefit not only students but also parents. Parents can also take advantage of the fact that they can take a variety of courses while working from home. In times of lockdown, it is important to learn new things and engage in specific tasks. The physical classroom learning nowadays is no longer applicable for the current younger generations. Internet and distance learning which is generally known as online education plays a vital role in the country's education system. It is undeniable that online education provides ample of benefits to young learners. Nevertheless, there are also many negative implications from online education. Limited collaborative learning, increase in time and effort are the several negative implications from online education. This study examines the implications of online education among students and its effects towards education system. Information has been collected through surveys, interviews and together with secondary data.

Education is one of the basic necessities of life today. It is a fundamental right of every citizen of the country to get quality education. Because the right career can be chosen only on the strength of good education. Education is very important for the development of any country. In our country, education has been imparted in different ways for many years. But after the independence of the country, revolutionary changes took place in the field of Indian education. Traditional education in the country took a modern form. Nowadays, e-education has become popular all over the world, including India. Online education is an education system in which teachers can use the Internet to teach students in any corner of the country or the world. Today, every student has started learning on mobile and computer

with the help of online classes! Teachers are being connected to all students using the Internet through video software. It is being introduced to everyone that online teaching can be done in the same way as it is taught in school.

### What is E-learning ?

Today, the epidemic Covid-19 is causing many problems in the world. Lockdowns and curfews have made it difficult to get an education outside the home. It was during this period that teachers from various schools in the country started teaching students online. Skype, WhatsApp, Zoom Video, etc. are some of the popular mobile apps that provide online education. In this, students can get education with the help of laptop or mobile while sitting in their bedroom or study table at home. A learning system based on formalized teaching but with the help of electronic resources is known as E-learning. While teaching can be based in or out of the classrooms, the use of computers and the Internet forms the major component of E-learning. E-learning can also be termed as a network enabled transfer of skills and knowledge, and the delivery of education is made to a large number of recipients at the same or different times.

### Advantages of online learning

#### 1. Convenience

This is the most important part of online education. Learning and teaching can be done from home with the help of laptops, computers and mobiles. With the help of online education we can also use our time to learn a new activity. Parents are constantly worried that their children will not study when they come out of school or tuition. But now parents can also pay attention to their children's studies. Parents can also solve problems by guiding them in their own way.

## **2. Flexibility**

We all know that by the time school started, there was a set time for everything. So the children had to set aside time from their schedule to study. They had to balance various duties. But with online learning, they can devote not only their study planning but also their remaining time to learning new subjects. Now parents can also help their children to study. Online learning allows students to focus and understand their target. This online learning also allows parents to understand the difficulties their children are facing at any time. It also helps parents to know which teachers are teaching their children.

## **3. Fun and easy**

At present, the online education system has made it necessary for students to be immersed in different things. Therefore, the school is also implementing various activities. So that the interest of the students in those things has also increased. They have come to know the basics of online classes properly. Because of the videos, images, documentaries that appear in online lectures.

## **4. Personalized Guidance**

We all know that our teachers help our students to solve the problems they face in school quickly. But personal guidance is just as important to them. In which the parents of those children can help them. Parents can definitely guide their children in this regard by informing them about the strengths and weaknesses of them.

It often happens that children do not get proper attention in school. But with the help of online learning, teachers are also trying to ensure that each child is given individual attention. Parents are the primary source of personal guidance to their children at home. It is important that parents provide personal attention to their performance during the learning process.

## **5. Group Communication**

Online learning is an important platform for discussion and interaction as well. You can have group discussions with your teachers and fellow classmates and enables you to clear any queries related to the subject. It offers a platform for you to connect with your teachers and friends via emails, chat rooms etc.

## **Disadvantages of online learning**

### **1. Inability To Focus On Screens**

For many students, one of the biggest challenges of online learning is the struggle with focusing on the screen for long periods of time. With online learning, there is also a greater chance for students to be easily distracted by social media or other sites. Therefore, it is imperative for the teachers to keep their online classes crisp, engaging, and interactive to help students stay focused on the lesson.

## **2. Technology Issues**

Another key challenge of online classes is internet connectivity. While internet penetration has grown in leaps and bounds over the past few years, in smaller cities and towns, a consistent connection with decent speed is a problem. Without a consistent internet connection for students or teachers, there can be a lack of continuity in learning for the child.

## **3. Sense Of Isolation**

In an online class, there are minimal physical interactions between students and teachers. This often results in a sense of isolation for the students. In this situation, it is imperative that the school allow for other forms of communication between the students, peers, and teachers. This can include online messages, emails and video conferencing that will allow for face-to-face interaction and reduce the sense of isolation.

## **4. Teacher Training**

Online learning requires teachers to have a basic understanding of using digital forms of learning. However, this is not the case always. Very often, teachers have a very basic understanding of technology. Sometimes, they don't even have the necessary resources and tools to conduct online classes.

To combat this, it is important for schools to invest in training teachers with the latest technology updates so that they can conduct their online classes seamlessly.

## 5. Manage Screen Time

Many parents are concerned about the health hazards of having their children spend so many hours staring at a screen. This increase in screen time is one of the biggest concerns and disadvantages of online learning. Sometimes students also develop bad posture and other physical problems due to staying hunched in front of a screen.

### Survey data collection

Survey data is defined as the resultant data that is collected from a sample of respondents that took a survey. This data is comprehensive information gathered from a target audience about a specific topic to conduct research. There are many methods used for survey data collection and statistical analysis.

Various mediums are used to collect feedback and opinions from the desired sample of individuals. While conducting survey research, researchers prefer multiple sources to gather data such as online surveys, telephonic surveys, face-to-face surveys, etc. The medium of collecting survey data decides the sample of people that are to be reached out to, to reach the requisite number of survey responses.

The methods used to collect survey data have evolved with the change in technology. From face-to-face surveys, telephonic surveys to now online and email surveys, the world of survey data collection has changed with time. Each survey data collection method has its pros and cons, and every researcher has a preference for gathering accurate information from the target sample.

The survey response rates for each of these data collection methods will differ as their reach and impact are always different. Different ways are chosen according to specific target population characteristics and the intent to examine human nature under various situations.

### Online Surveys

Online surveys are the most cost-effective and can reach the maximum number of people in comparison to the other mediums. The performance of these surveys is much more widespread than the other data collection methods. In situations where there is more than one question to be asked to the target sample, certain researchers prefer conducting online surveys over the traditional face-to-face or telephone surveys.

Online surveys are effective and therefore require computational logic and branching technologies for exponentially more accurate survey data collection vs any other traditional means of surveying. They are straightforward in their implementation and take a minimum time of the respondents. The investment required for survey data collection using online surveys is also negligible in comparison to the other methods. The results are collected in real-time for researchers to analyse and decide corrective measures.

A very good example of an online survey is a hotel chain using an online survey to collect guest satisfaction metrics after a stay or an event at the property.

## Advantages of online survey

### 1. Increased Response Rate

The low cost and overall convenience of online surveys bring in a high response. Respondents get to answer questions on their own schedule at a pace they choose.

### 2. Low Cost

Collecting data doesn't have to break the bank anymore. There are plenty of websites and platforms that make creating your survey fast and affordable.

### 3. Real-time Access

Respondents' answers store automatically so you get results at your fingertips in no time. This turns analysing your results into effortless and immediate action.

### 4. Convenience

Respondents answer questions on their own schedule and can even have flexibility with completion time. Rapid deployment and return times are possible with online surveys that don't use traditional methods. And, if you have bad contact information for some respondents, you'll know it almost immediately.

## 5. Design Flexibility

Surveys can be programmed even if they're very complex. Intricate skip patterns and logic can be employed seamlessly. You can create the layout, questions, and answer choices with no hassle.

## 6. No Interviewer

Since respondents are not disclosing their answers directly to another person, it is easier for them to open up. Interviewers can also influence responses in some cases.

## Disadvantages of online survey

### 1. Survey Fraud

This is the biggest challenge. If your survey is long and/or confusing you might get fake answers. Since there is less accountability, the chances for people just hitting buttons to finish are high. Check the questions you use carefully. People often take surveys because they're promised a reward at the end, resulting in them not accurately contributing to your study.

### 2. Limited Sampling and Respondent Availability

Certain populations are less likely to have internet access and to respond to online questionnaires. Drawing samples is harder based on email addresses or website visitations.

### **3. Possible Cooperation Problems**

Online surveys could be deleted and ignored. People hate feeling poked and if they get annoyed, they just have to click delete.

### **Collection of data**

This data plays a significant part. The method of collecting information is divided into two different sections, namely primary data and secondary data. In this process, the primary data is assembling data or information for the first time, whereas the secondary data is the data that has already been gathered or collected by others.

The most important characteristics of the primary data is that it is original and first-hand, whereas the secondary data is the interpretation and analysis of the primary data.

### **Primary Data Definition**

Primary data is the data that is collected for the first time through personal experiences or evidence, particularly for research. The data is mostly collected through observations, physical testing, mailed questionnaires, surveys, personal interviews, telephonic interviews, case studies, and focus groups, etc. These are in the form of raw materials. These are original because these are collected by the investigator for the first time.

## Secondary Data Definition

Secondary data is a second-hand data that is already collected and recorded by some researchers for their purpose, and not for the current research problem. It is accessible in the form of data collected from different sources such as government publications, censuses, internal records of the organization, books, journal articles, websites and reports, etc. This method of gathering data is affordable, readily available, and saves cost and time. These are in the finished form. These are not original because someone else has collected these for his own purpose.

## Objectives

1. To know whether the efficiency of students is affected by online education or not.
2. To study whether the students are focused on studies or they able to use technology.
3. To know about health condition affected due to online education or not.
4. To know about financial crisis faced by parents due to increased charges of online curricular.
5. To learn about whether educational problems of students are solved or not.
6. To know whether students were able to manage studies and other curricular activities.

## What is survey?

A survey is an instrument to collect data that describes one or more characteristics of a specific population.

Now a days, survey method is mostly used by researchers. Survey research has a particular method of data collection as well as data analysis. So, survey can be general and specific.

## What is survey design?

Survey designs are procedures in quantitative research in which investigators administer a survey to a sample or to the entire population of people to describe the attitudes, opinions, behaviour or characteristics of the population. In this procedure, survey research collect quantitative, numbered data using questionnaires or interviews and statistically analyse the data to describe trends about responses to questions and to test research questions or hypothesis.

The survey design selected for this research study was qualitative in nature using interviews observations and documents.

## **What is survey design?**

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**Franenkel and Wallen 2003; Glesne, 1999** said that, **qualitative research provides an understanding of a situation or phenomenon that tells the story rather than determining cause and effect.** Techniques for conducting qualitative research include observations, interview and document analysis.

This corona epidemic raised a big question mark over student education. At that time, the government ordered the introduction of online education for all. Online learning started. But how many students are adopting these methods? We should try to know this. If students do not understand something in this online learning method, their interest will go out of their learning. If students do not understand the teaching methods in the early academic period, no one can say how much the student will learn later.

Given the current situation, online education is a need of the hour. But its impact on students is the next big problem facing the country. So can we contribute something in our own way today? That's why I chose this topic. So that the problems faced by the students are known to all. And there will definitely be efforts to find a way out of this.

In this project, with the help of Google form, I filled this form from the school students of Chalisgaon division. This form was sent to 200 students and out of them 140 students filled and sent this form. In this survey, they were asked questions related to the studies. Students understood the questions while filling out the form. This information was received after a call from the students who filled the form. The form was designed in such a way that the students could easily understand the questions and answer them on their own.

## Sampling

Surveys are conducted to gather information about a population. Sometimes the survey is conducted as a Census, where the goal is to survey every unit in the population. However, it is frequently impractical or Impossible to survey an entire population, perhaps owing to either cost constraints or some other practical constraint, such as that it may not be possible to identify all the members of the population. An alternative to conducting a census is to select a sample from the population and survey only those sampled units.

Before technology became modern, surveys had to be done. It used to cost a lot at that time. It was a difficult task to print out the prepared questionnaires and distribute them among the people. It used to take a lot of time and cost a lot. But not now, with the push of a button, the finished survey can be sent to people's mobiles. So that costs are reduced and time is saved.

Sometimes we are confused between population and sample, The population is the entire group that you want to draw conclusions about. The sample is the specific group of individuals that you will collect data from. The population can be defined in terms of geographical location, age, income, and many other characteristics. It can be very broad or quite narrow. Sampling is a technique of selecting individual members or a subset of the population to make statistical inferences from them and estimate characteristics of the whole population.

## **Types of probability sampling**

Probability sampling means that every member of the population has a chance of being selected. It is mainly used in quantitative research. If you want to produce results that are representative of the whole population, probability sampling techniques are the most valid choice.

### **1. Simple random sampling**

In a simple random sample, every member of the population has an equal chance of being selected. Your sampling frame should include the whole population.

### **2. Systematic sampling**

Systematic sampling is similar to simple random sampling, but it is usually slightly easier to conduct. Every member of the population is listed with a number, but instead of randomly generating numbers, individuals are chosen at regular intervals.

### **3. Stratified sampling**

Stratified sampling involves dividing the population into subpopulations that may differ in important ways. It allows you draw more precise conclusions by ensuring that every subgroup is properly represented in the sample.

#### 4. Cluster sampling

Cluster sampling also involves dividing the population into subgroups, but each subgroup should have similar characteristics to the whole sample. Instead of sampling individuals from each subgroup, you randomly select entire subgroups.

### Types of non probability sampling

In a non-probability sample, individuals are selected based on non-random criteria, and not every individual has a chance of being included. This type of sample is easier and cheaper to access, but it has a higher risk of sampling bias. That means the inferences you can make about the population are weaker than with probability samples, and your conclusions may be more limited.

#### 1. Convenience sampling

A convenience sample simply includes the individuals who happen to be most accessible to the researcher.

#### 2. Voluntary response sampling

Similar to a convenience sample, a voluntary response sample is mainly based on ease of access. Instead of the researcher choosing participants and directly contacting them, people volunteer themselves.

### 3. Purposive sampling

This type of sampling, also known as judgement sampling, involves the researcher using their expertise to select a sample that is most useful to the purposes of the research.

### 4. Snowball sampling

If the population is hard to access, snowball sampling can be used to recruit participants via other participants. The number of people you have access to “snowballs” as you get in contact with more people.

## Sample Size

The sample size is defined as the number of observations used for determining the estimations of a given population. The size of the sample has been drawn from the population. Sampling is the process of selection of a subset of individuals from the population to estimate the characteristics of the whole population.

Total 140 students filled the Google form survey. The survey was distributed in 200 students out of that 140 students were filled the survey. The sampling technique used for the study was simple random sampling. There were individual differences in information search process have been found to be related to demographic characteristics.

## Sampling from a population

Survey researchers typically select and study a sample from a population and generalized results from the sample to the population. At the broadest level is the population, in which a group of individuals possesses one characteristic that distinguishes them from other groups. At a more specific, level researchers do not always study and entire population, either because they cannot identify the individuals or because they cannot obtain list of name. In practical, operational terms researchers study a target population sometimes called the sampling frame. At the most specific level, researchers select a sample from the target population. There is variety of taking information from the population. Taking interviews like telephone, face to face or getting information from Google survey or any other online survey. This will helps to the researchers to study.

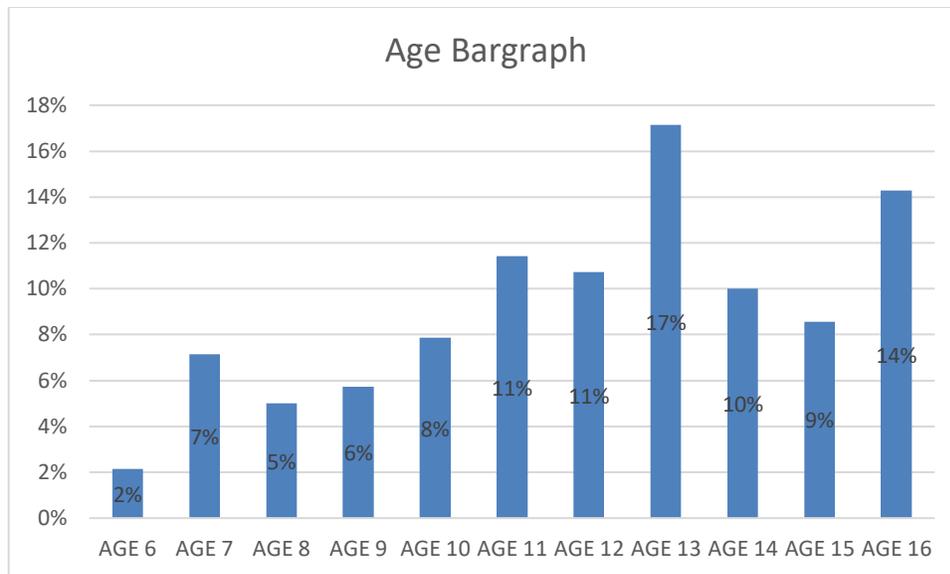
## RESEARCH STRATEGY

There are many strategies of research that can be used in the study in various disciplines. **As Saunders et al. (2000) pointed out:** experiment, survey through constructed questionnaire, case study, grounded theory, ethnography and action research.

The researcher begins his or her study by posing the research questions on The basis of objectives. The first question that must come in the mind of the researcher that is why, when, where, what, whom and then for finding these pronouns the research starts. Therefore, in this study Survey Strategy

through questionnaire has been chosen for collecting the data. Collecting data from structured questionnaire is a common method in business research. This Survey Method allows the opportunity of collecting data from a large sample size of population. A survey allows for standardization of data which allows easy comparisons. In addition, since this method is easily understood by the respondents, it is perceived as authoritative. Furthermore, the survey method gives more control over the research process. The principle instrument is a questionnaire, on which respondent is asked to give their responses these questions in a predetermined order.

# Chapter 4. Data Analysis and Hypothesis Testing



From the above figure,

Right to Education Act 2009, every student is required to get education. The educational journey of the students starts from the age of four. Nursery, Kinder Garden, Small Kindergarten, Large Kindergarten, First, their educational journey has started in such a way. While conducting this survey, questions have been asked about the educational difficulties faced by the students in the online education system. When I asked, about the age of students, I got the following responses.

Out of the 140 students,

2% students are age of 6

7% students are age of 7

5% students are age of 8

6% students are age of 9

8% students are age of 10

11% students are age of 11

11% students are age of 12

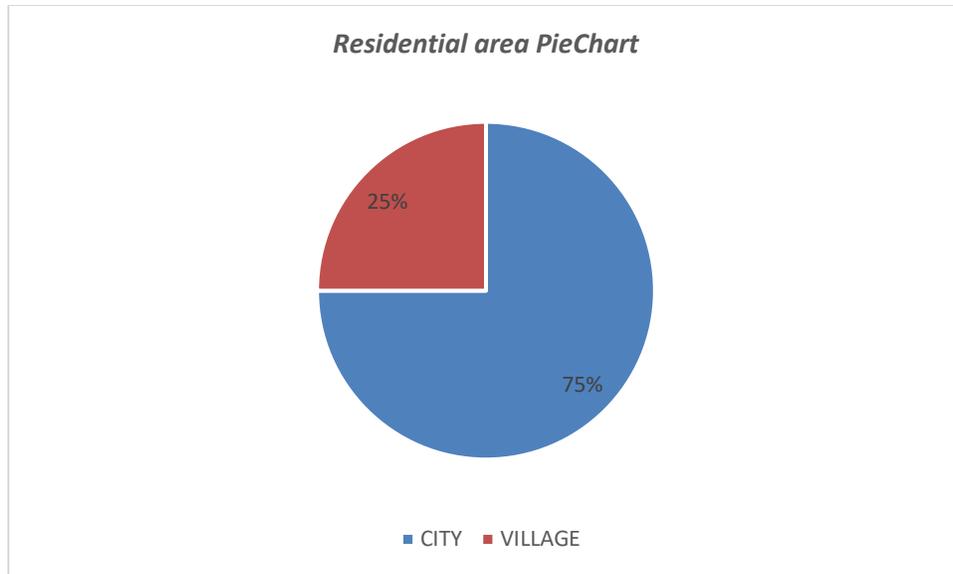
17% students are age of 13

10% students are age of 14

9% students are age of 15

14% students are age of 16

As per the count on every session, it is simple to figure out that most of the students are age of 13.



From the above figure,

Education is a fundamental right of every student. Whether the student is poor or rich, he must get an education. A lot of schools have started in recent times. Most of the schools are in the villages, while most of the schools are in the cities. Teaching methods are different in both places. But students are formed from both schools. Whether you live in a city or a village, this does not deprive you of your right to education. Your home environment does not determine whether you are eligible for education. Our country has the highest number of youth in the world. That is why foreign companies are also more eager to invest in their countries. So if every student in our country learns, the economic situation of our country can also change. And the country can develop on a large scale.

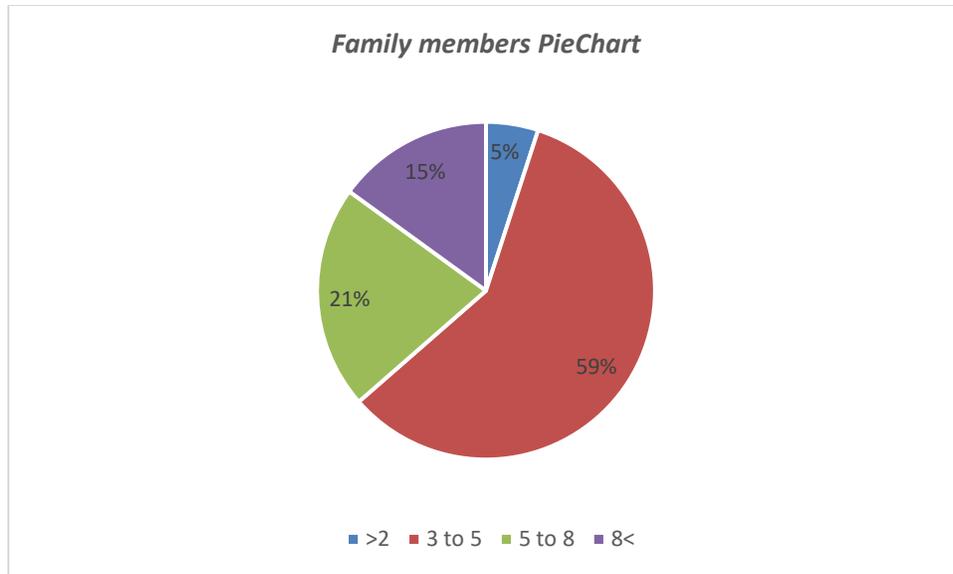
In Chalisgaon region,

Out of the 140 students,

75% students are from city.

25% students are from villages.

As per the count on every session, it is simple to figure out that most of the students are from city.



From the above figure,

The financial situation of each household is also different. Parents educate their children accordingly. Parents decide which school their child will go to based on the conditions at home. If there is more than one child at home, it is taught in a government school. And if there is only one boy or girl, it is taught in a big convent school. It all depends on the situation. But it also proves that parents want to educate their children no matter what the circumstances. When I asked, how many members are in their family? I got the following responses.

Out of the 140 students,

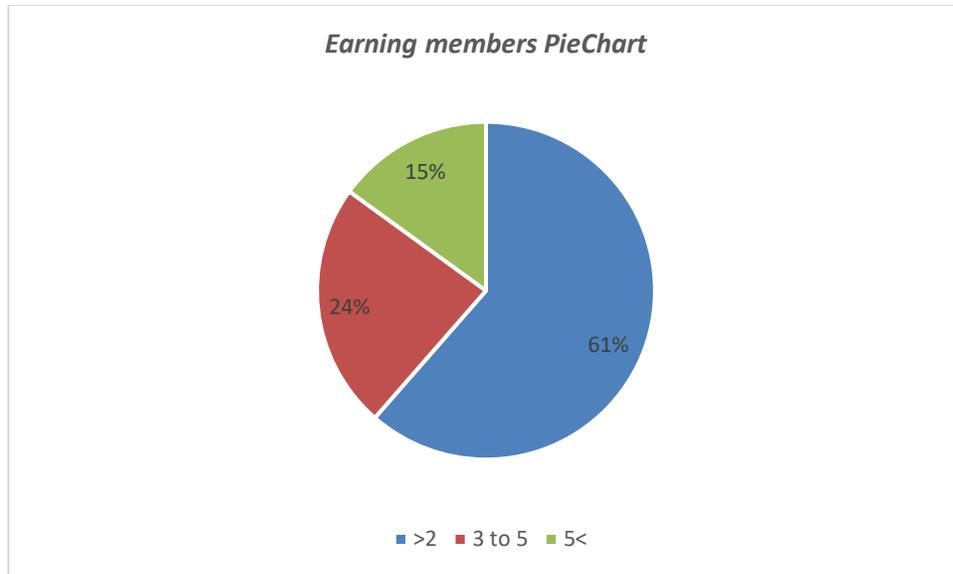
5% students are living with >2 family members.

59% students are living with 3 to 5 family members.

21% students are living with 5 to 8 family members.

15% students are living with 8< family members.

As per the count on every session, it is simple to figure out that most of the students are living with 3 to 5 family members.



From the above figure,

It is not decided whether it is appropriate for the student to take education from home conditions. Because education is a fundamental right of every student. Even though the home environment is poor, parents work hard to pay for their children's school fees. For some reason, parents are late in paying their student fees. But they do their best to educate their children. In a home where only one parent earns, the parent would have dreamed of getting their child a higher education. And the student does his best to fulfill that dream. So whether the education is online or offline, students are trying to study with full attention. When I asked, how much earners are in their family? I got the following responses.

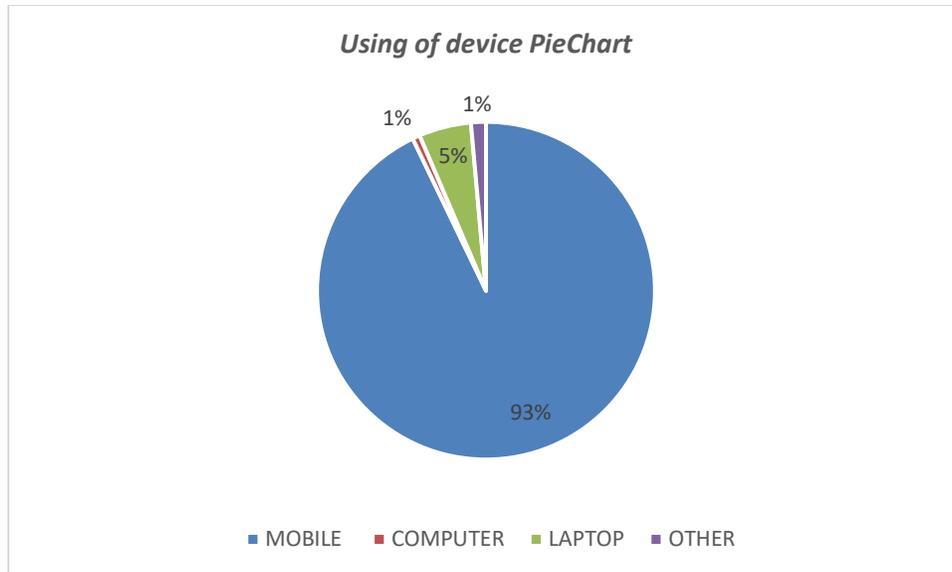
Out of the 140 students,

61% students are confirming that there are >2 earning members are in family.

24% students are confirming that there are 3 to 5 earning members are in family.

15% students are confirming that there are 5< earning members are in family.

As per the count on every session, it is simple to figure out that most of the students families, there are >2 earning members in family.



From the above figure,

The online education system has forced many parents to buy electronic items. Like mobile, many students are learning from mobile. So some are taking over from laptops. Every student is trying to learn. Many parents lost their jobs in the Corona epidemic. However, in order not to stop their children's education, they bought electronics items and continued their education. Not everyone was in a good financial position, so many people helped. When I asked, which device did you use to attend online classes? I got the following responses.

Out of the 140 students,

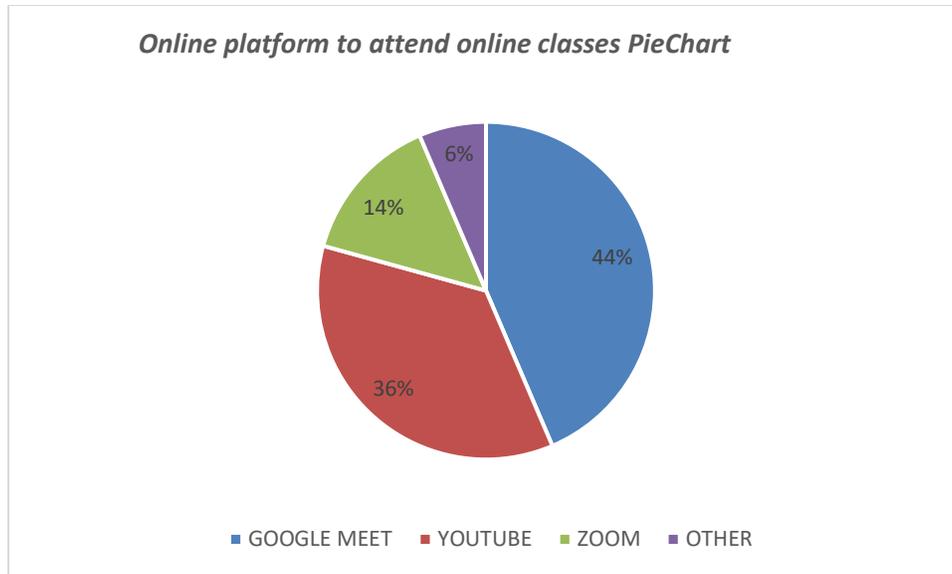
93% students are using mobile.

1% students are using computer

5% students are using laptop

1% students are using other.

As per the count on every session, it is simple to figure out that most of the students are using mobile to attend the online classes.



From the above figure,

Students are learning from different apps in online learning method. Many schools are teaching students through Google Meet, Zoom, YouTube. Students as well as teachers had to deal with the internet as well as many other problems while starting online education. But education continues. Teachers are trying to solve some of the problems that students face while learning online. When I asked, which online platform are you using to attend online classes? I got the following responses.

Out of the 140 students,

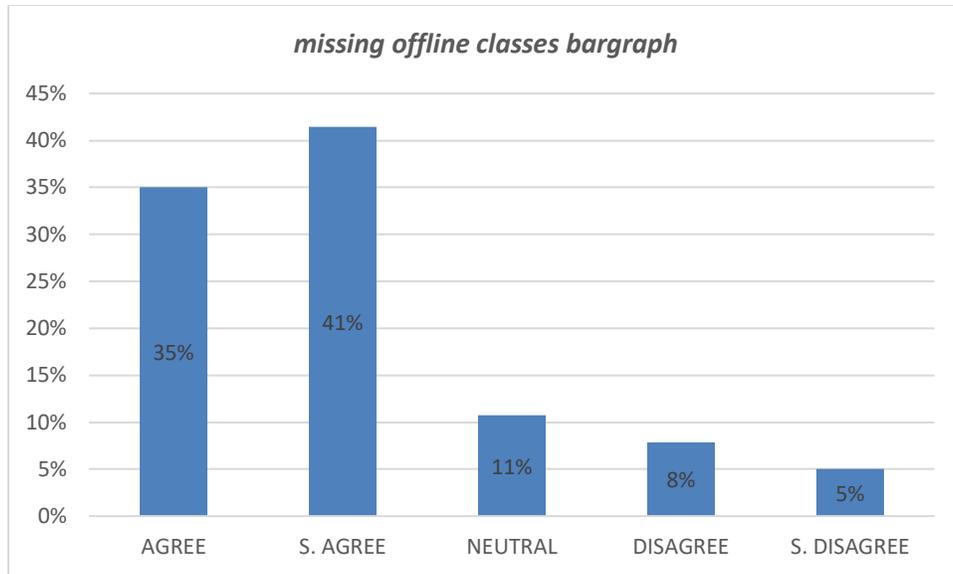
44% students are using Google meet to attend online classes.

36% students are using YouTube to attend online classes.

14% students are using Zoom meet to attend online classes.

6% students are using other meet to attend online classes.

As per the count on every session, it is simple to figure out that most of the students are using Google meet to attend online classes.



Question 1: Are you missing offline classes ?

From the above graph,

The kids have been at home ever since the online school started. So the children did not have much contact with the outside world. When I asked how many children are missing out on going to school, I got the following responses.

Out of the 140 students,

35% students are agree that they missing school.

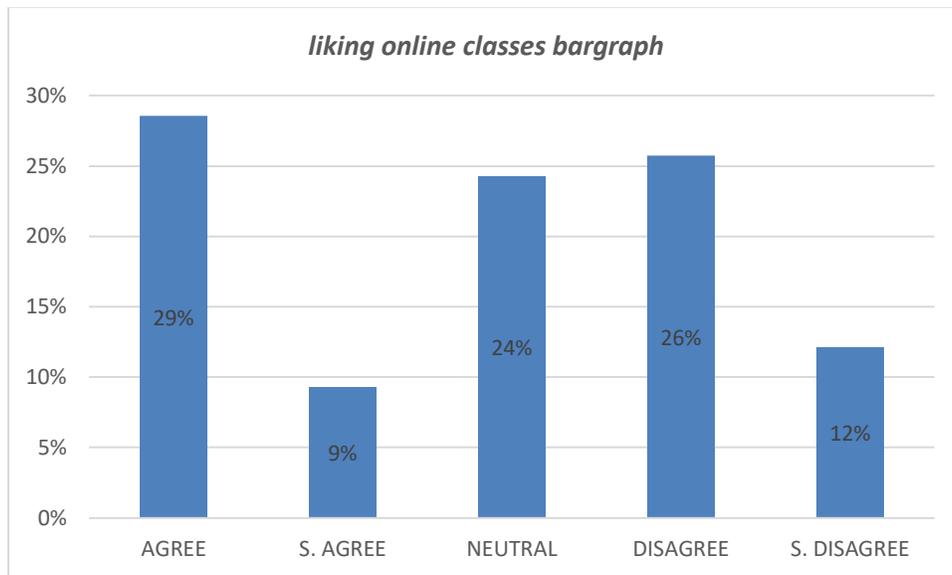
41% students are strongly agree that they missing school very much.

11% students are neutral that they are missing 50-50% going to school.

8% students are disagree with not missing school.

5% students are strongly disagree that they are not missing school very much.

As per the count on every session, it is simple to figure out that most of the students are strongly agree with missing their offline classes.



## Question 2: Are you liking online classes?

From the above graph,

Even though this online education system is new, how much do children like it? It is important to know this. When I asked how many children are liking their online classes, I got the following responses.

Out of the 140 students,

29% students are agree that they are liking online classes.

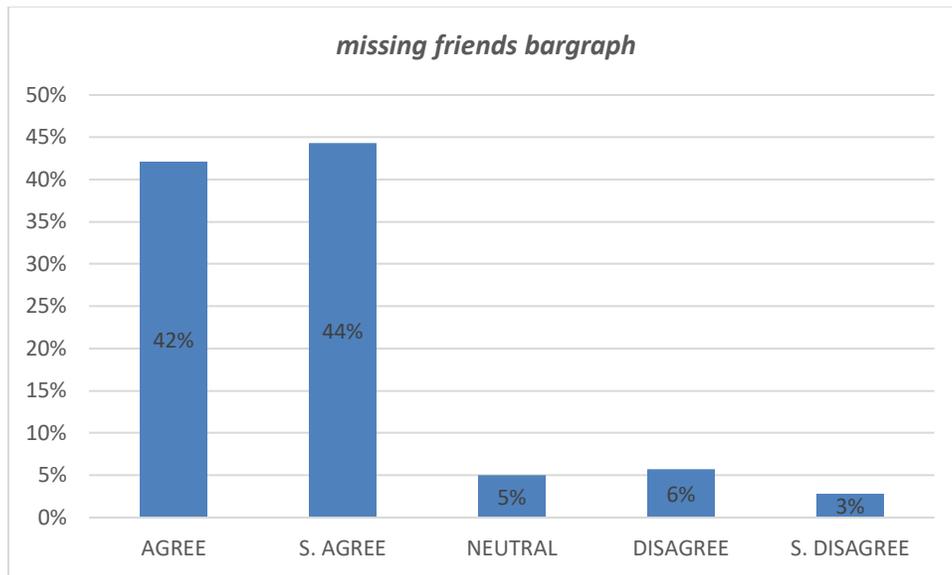
9% students are strongly agree that they are liking online classes very much.

24% students are neutral that they are liking 50-50% online classes.

26% students are disagree with not liking online classes.

12% students are strongly disagree that they are not liking classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree with liking their online classes.



### Question 3: Are you missing your friends?

From the above figure,

We have friends in our lives since childhood only because of school and the children living around us. But now the school is also sitting at home, which has made it difficult to meet friends. School is not only for education but also for friends, that's why friends are remembered. When I asked, how many of you are missing your friends, I got the following responses.

Out of the 140 students,

42% students are agree that they are missing their friends.

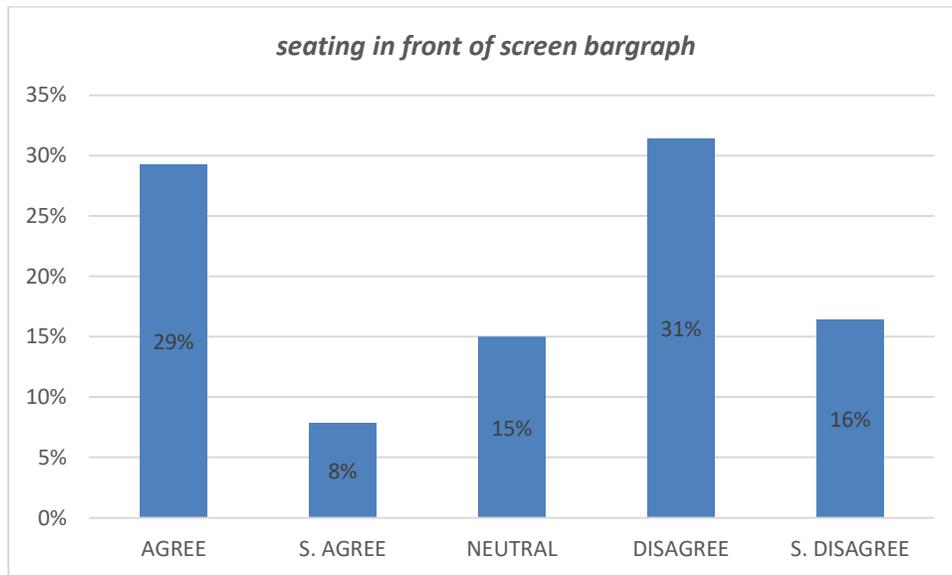
44% students are strongly agree that they are missing their friends very much.

5% students are neutral that they are missing 50-50% their friends.

6% students are disagree with not missing their friends.

3% students are strongly disagree that they are not missing their friends very much.

As per the count on every session, it is simple to figure out that most of the students are strongly agree with missing their friends.



Question 4: Is this possible for you to seat in front of screen for long period of time?

From the above figure,

Due to online learning, students have to sit in front of screen for hours. But how much does it cost them? It is also important to know. Because when I was in school, I used to have a lot of connections with the blackboard, but now with this online learning, the students have more connections with the white board. When I asked, Is this possible for you to seat in front of screen for long period of time?, I got the following responses.

Out of the 140 students,

29% students are agree that they are able to sit in front of screen for long period of time.

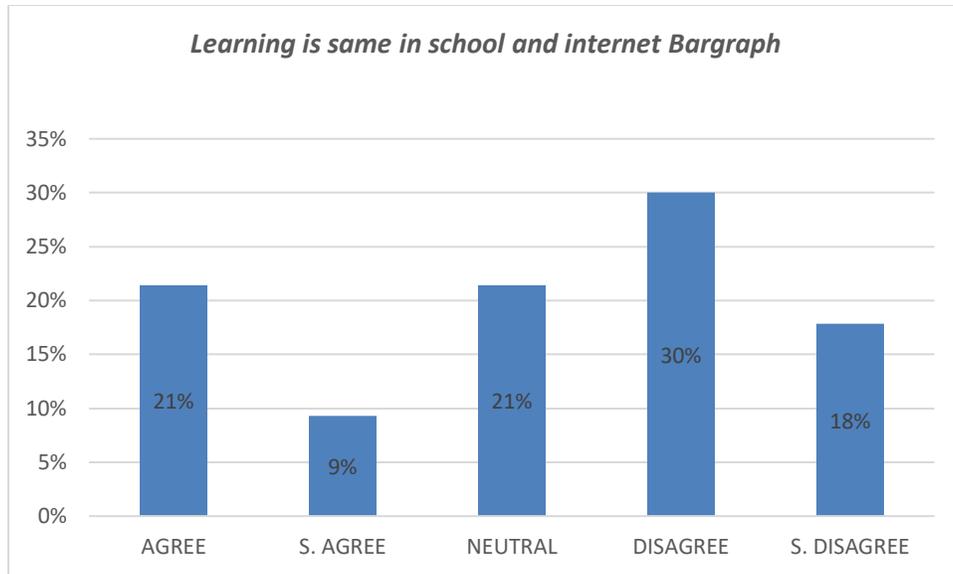
8% students are strongly agree that they are able to sit in front of screen for long period of time very much.

15% students are neutral that they are 50-50% able to sit in front of screen for long period of time.

31% students are disagree with not able to sit in front of screen for long period of time.

16% students are strongly disagree that they are able to sit in front of screen for long period of time very much.

As per the count on every session, it is simple to figure out that most of the students are disagree with not able to sit in front of screen for long period of time.



Question 5: Learning is the same in class and at home on the internet?

From the above graph,

Today, everyone is saying that learning in school is the same as learning from home. But is it really the same? Students should ask this, because whatever is going on, the student is facing it. So they can tell more clearly whether learning at home is the same as learning at school. When I asked, Learning is the same in class and at home on the Internet? I got the following responses.

Out of the 140 students,

21% students are agree that learning is the same in class and at home on the internet.

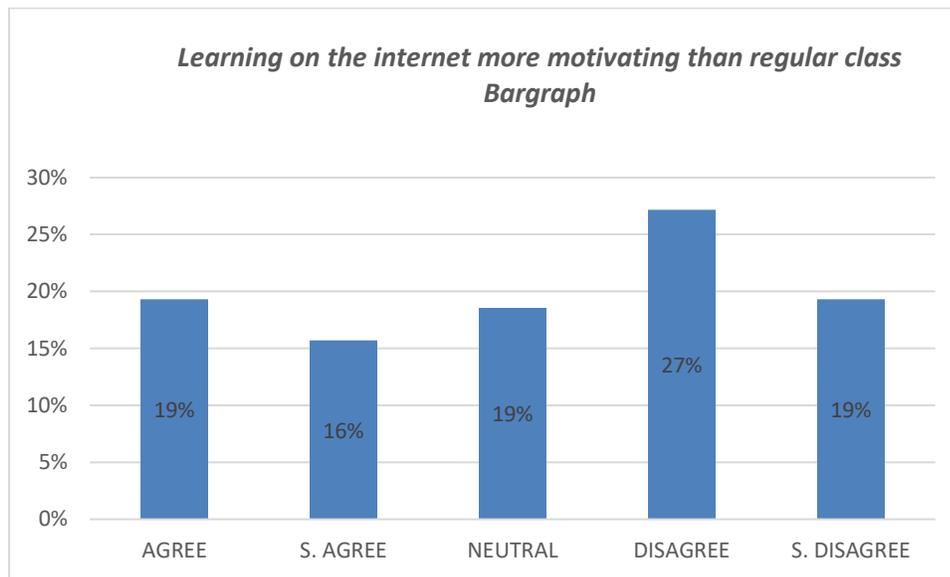
9% students are strongly agree that learning is the same in class and at home on the internet very much.

21% students are neutral that learning is 50-50% same in class and at home on the internet.

30% students are disagree with learning is not the same in class and at home on the internet.

18% students are strongly disagree that learning is not the same in class and at home on the internet very much.

As per the count on every session, it is simple to figure out that most of the students are disagree with learning is the same in class and at home on the internet.



Question 6: Learning on the internet more motivating than a regular class?

From the above graph,

In e-learning education system, even if the education is online, it should have the interest of the students. Because education is for the students and if they are not focused there, then the teaching of the teachers will not achieve the purpose behind it. For this, various photos, videos should be shown in the middle so that it will be an attraction for the students. When I asked, Learning on the internet more motivating than a regular class? I got following responses.

Out of the 140 students,

19% students are agree that learning on the internet is more motivating than a regular class.

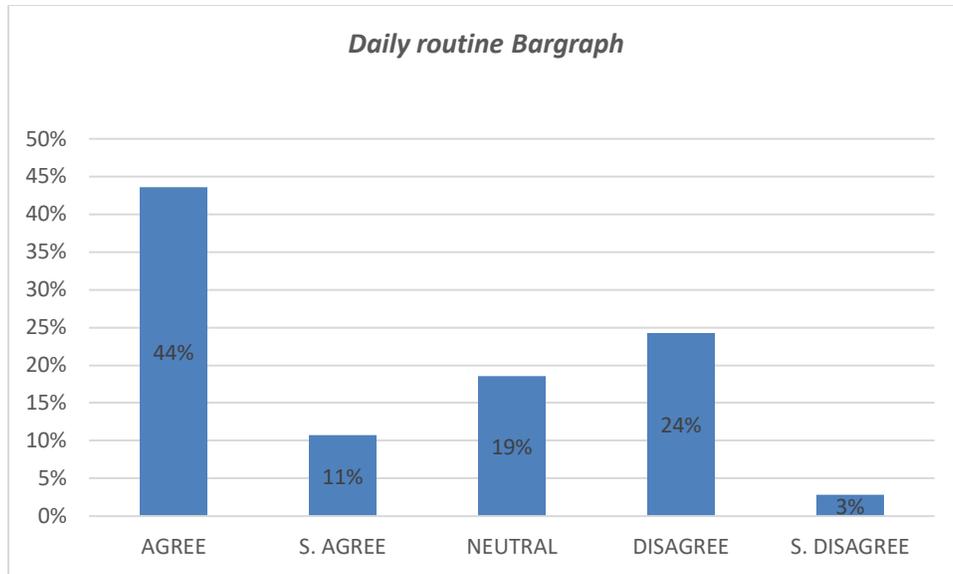
16% students are strongly agree that learning on the internet is more motivating than a regular class very much.

19% students are neutral that learning is 50-50% on the internet is more motivating than a regular class.

27% students are disagree with learning on the internet is not more motivating than a regular class.

19% students are strongly disagree that learning on the internet is not more motivating than a regular class very much.

As per the count on every session, it is simple to figure out that most of the students are disagree with learning on the internet is more motivating than a regular class.



Question 7: Is it possible to manage the daily routine?

From the above graph,

From school, we are taught how to plan our time. Even if the school is online, the planned planning can be carried out. If you schedule the day and what you are going to do, you will know what you want to prioritize. It is important to do the work on time. There should be planning not only for study but also for watching TV. Doing your homework on a daily basis and reviewing your study further helps you to plan ahead. When I asked, Is it possible to manage the daily routine? I got the following responses.

Out of the 140 students,

44% students are agree that it is possible to manage the daily routine.

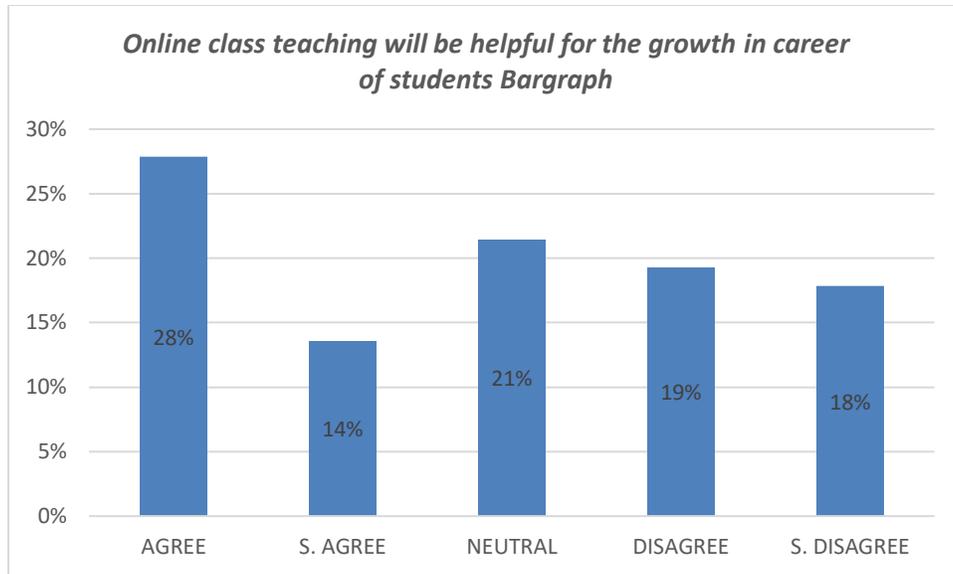
11% students are strongly agree that it is possible to manage the daily routine very much.

19% students are neutral that it is 50-50% possible to manage the daily routine.

24% students are disagree with it is not possible to manage the daily routine

3% students are strongly disagree that it is not possible to manage the daily routine very much.

As per the count on every session, it is simple to figure out that most of the students are agree that it is possible to manage the daily routine.



Question 8: Do you think the online class teaching will be helpful for the growth in your career?

From the above graph,

If students do not understand something, they ask the teacher and resolve their doubts. Teachers, whether in school or online, are eager to address students' concerns. Online learning is not here to compete with, but to complement classroom education. It does not serve as an alternative, but can play the role of an 'additional coach', or supplemental education, effectively. When I asked, do you think the online class teaching will be helpful for the growth in your career? I got the following responses.

Out of the 140 students,

28% students are agree that online class teaching will be helpful for the growth in their career.

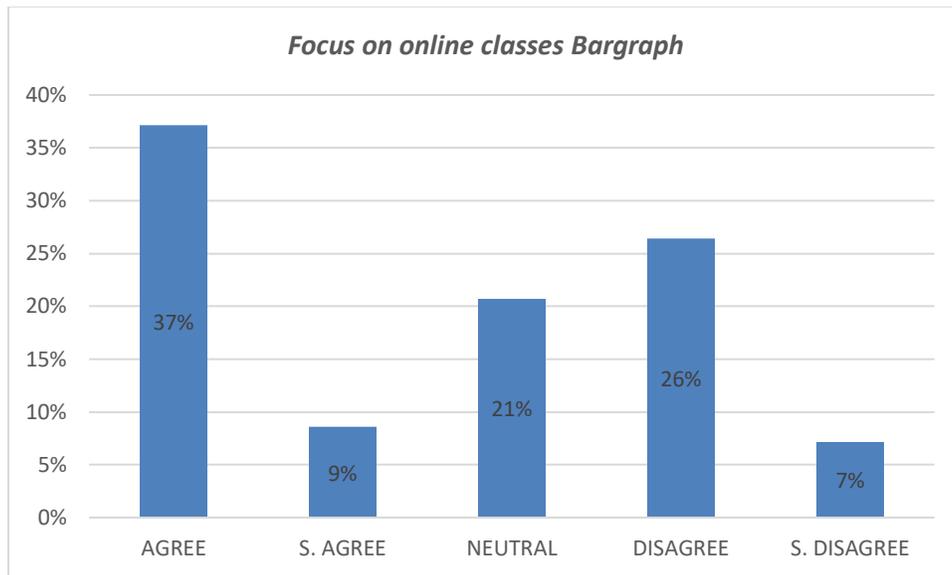
14% students are strongly agree that online class teaching will be helpful for the growth in their career very much.

21% students are neutral that it is 50-50% online class teaching will be helpful for the growth in their career.

19% students are disagree with online class teaching will not be helpful for the growth in their career.

18% students are strongly disagree that online class teaching will not be helpful for the growth in their career very much.

As per the count on every session, it is simple to figure out that most of the students are agree that online class teaching will be helpful for the growth in their career.



Question 9: Is this possible for you to focus on online classes?

From the above graph,

A healthy diet is a priority in your life. Sleeping on time, eating, doing everything on time, it keeps your body healthy. If the body is mentally fit, then you have no difficulty in studying. Different thoughts do not come to our mind while studying. Not only sound education but his alertness and dedication too are most required. Only then can students concentrate on their studies and absorb them. When I asked, Is this possible for you to focus on online classes? I got the following responses.

Out of the 140 students,

37% students are agree that it is possible for them to focus on online classes.

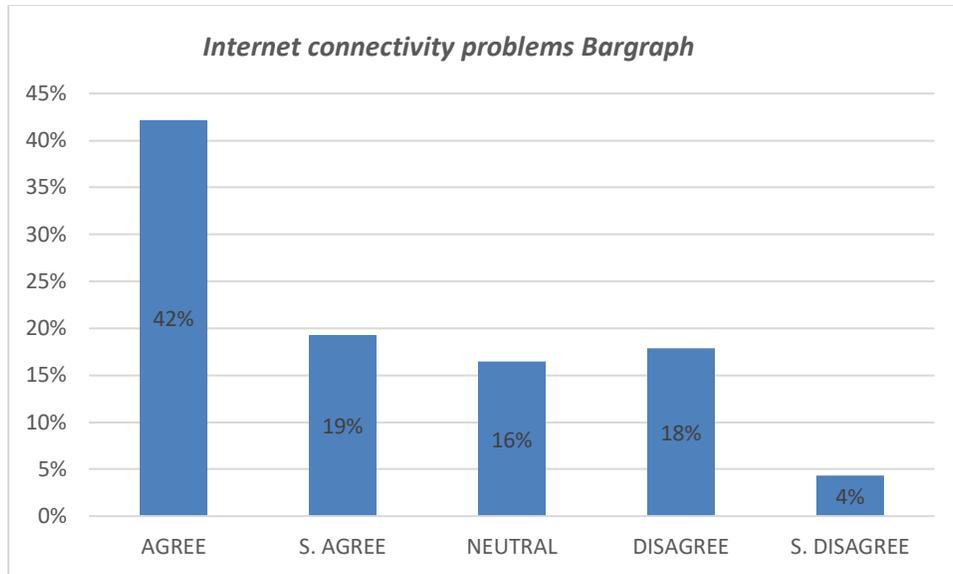
9% students are strongly agree that it is possible for them to focus on online classes very much.

21% students are neutral that it is 50-50% possible for them to focus on online classes.

26% students are disagree with It is not possible for them to focus on online classes.

7% students are strongly disagree that It is not possible for them to focus on online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that it is possible for them to focus on online classes.



Question 10: Did you face internet connectivity problems?

From the above graph,

Many students are not well equipped with a high internet connection that is required for online learning. Due to this, they face problems in going live for virtual learning and other platforms that require internet connection. They face technical issues as they are not much aware of technology and computer applications. When I asked, did you face internet connectivity problems? I got the following responses.

Out of the 140 students,

42% students are agree that they face internet connectivity problems.

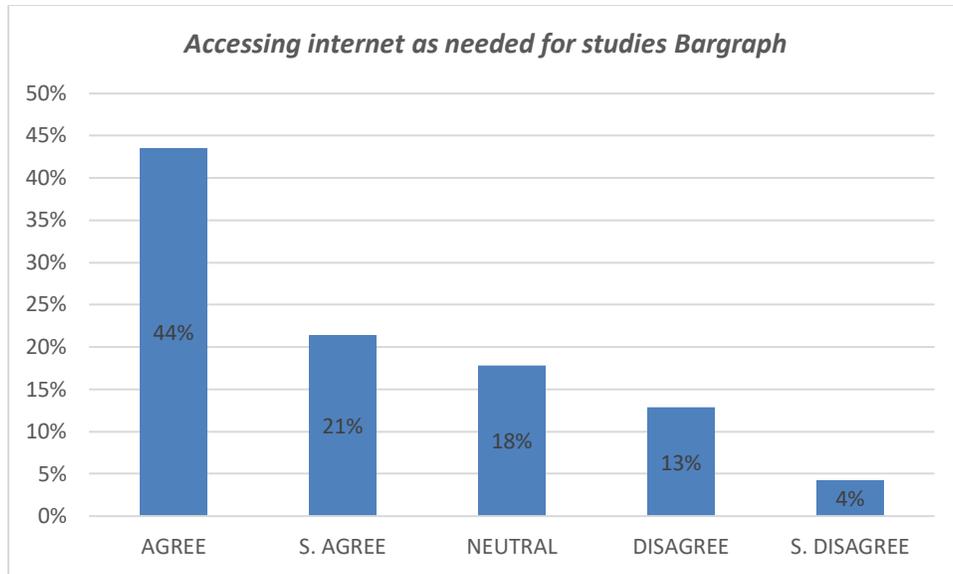
19% students are strongly agree that they face internet connectivity problems very much.

16% students are neutral that it is 50-50% they face internet connectivity problems.

18% students are disagree with they didn't face internet connectivity problems.

4% students are strongly disagree with they didn't face internet connectivity problems.

As per the count on every session, it is simple to figure out that most of the students are agree that they face internet connectivity problems.



Question 11: Are you able to access the internet as needed for your studies?

From the above graph,

A slow and high internet connection can play an important role in how quickly you can attend the class and do not miss any live sessions. Students also face many of these problems as online methods are new. Then either they try to solve the problem on their own or they take the help of parents. It is seen as the student tries to understand the new thing. When I asked, are you able to access the internet as needed for your studies? I got the following responses.

Out of the 140 students,

44% students are agree that they are able to access the internet as needed for their studies.

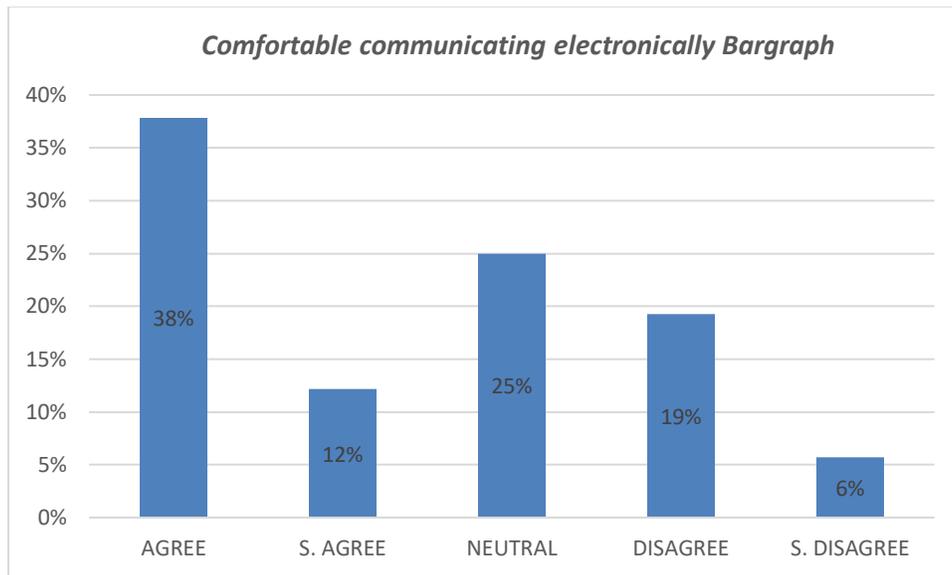
21% students are strongly agree that they are able to access the internet as needed for their studies very much.

18% students are neutral that it is 50-50% that they are able to access the internet as needed for their studies.

13% students are disagree with they are not able to access the internet as needed for their studies.

4% students are strongly disagree with they are not able to access the internet as needed for their studies very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are able to access the internet as needed for their studies.



Question 12: Are you comfortable communicating electronically?

From the above graph,

Our world is going digital now. So teaching methods are also going digital. Students are also learning and understanding new digital learning methods. But they can't do it alone. Parents need their help. Even so, owning one is still beyond the reach of the average person. It is becoming difficult to do everything alone but the children are still trying. When I asked, Are you comfortable communicating electronically? I got the following responses.

Out of the 140 students,

38% students are agree that they are comfortable communicating electronically.

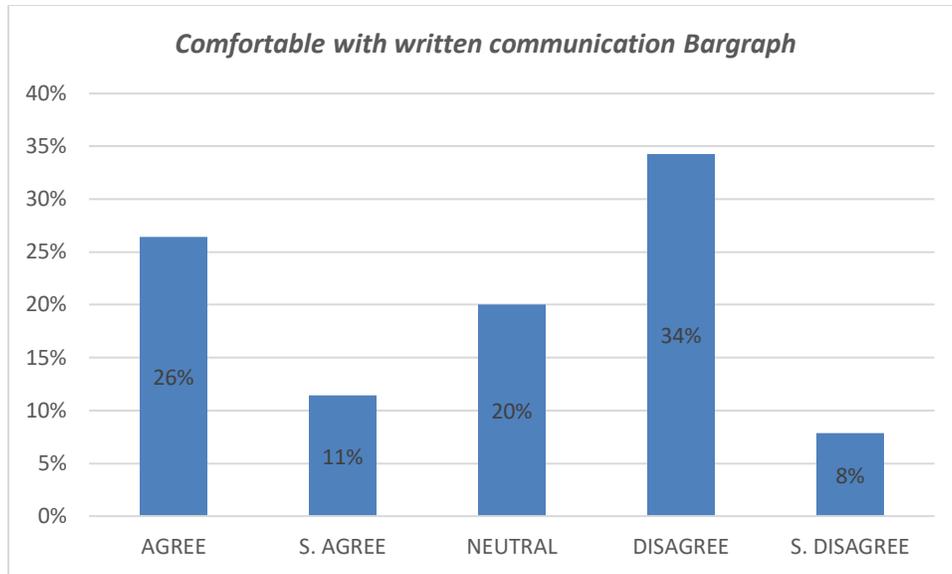
12% students are strongly agree that they are comfortable communicating electronically very much.

25% students are neutral that it is 50-50% that they are comfortable communicating electronically.

19% students are disagree with they are not comfortable communicating electronically.

6% students are strongly disagree with they are not comfortable communicating electronically very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are comfortable communicating electronically.



**Question 13: Are you comfortable with written communications during online classes?**

From the above graph,

Students would write down what the teacher said while in school. At that time, the students found it tedious. But right now in e-learning, what are the teachers saying, can students write on time? Students are writing with the class, aren't they? Or are the students lagging behind? It is important to understand whether this has really emphasized student writing while teaching online. When I asked, are you comfortable with written communications during online classes? I got the following responses.

Out of the 140 students,

26% students are agree that they are comfortable with written communications during online classes.

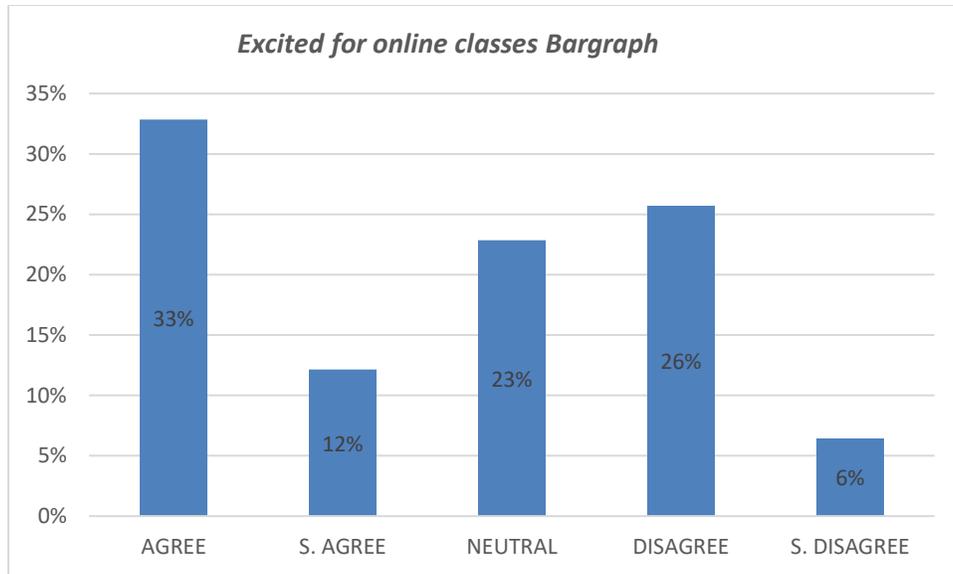
11% students are strongly agree that they are comfortable with written communications during online classes very much.

20% students are neutral that it is 50-50% that they are comfortable with written communications during online classes.

34% students are disagree with they are not comfortable with written communications during online classes.

8% students are strongly disagree with they are not comfortable with written communications during online classes very much.

As per the count on every session, it is simple to figure out that most of the students are disagree with they are not comfortable with written communications during online classes.



Question 14: Are you excited for attending the online classes?

From the above graph,

Students used to get bored of going to school. For some reason or another, he was thinking of ways to make school a holiday. But now it will not work, because now the school has come home. Therefore, students have to attend school no matter how much they do not want to. Even if for some reason the school could not attend, we can see the recording lecture later. That is, your study does not lose anything. When I asked, are you excited for attending the online classes?

I got the following responses.

Out of the 140 students,

33% students are agree that they are excited for attending the online classes.

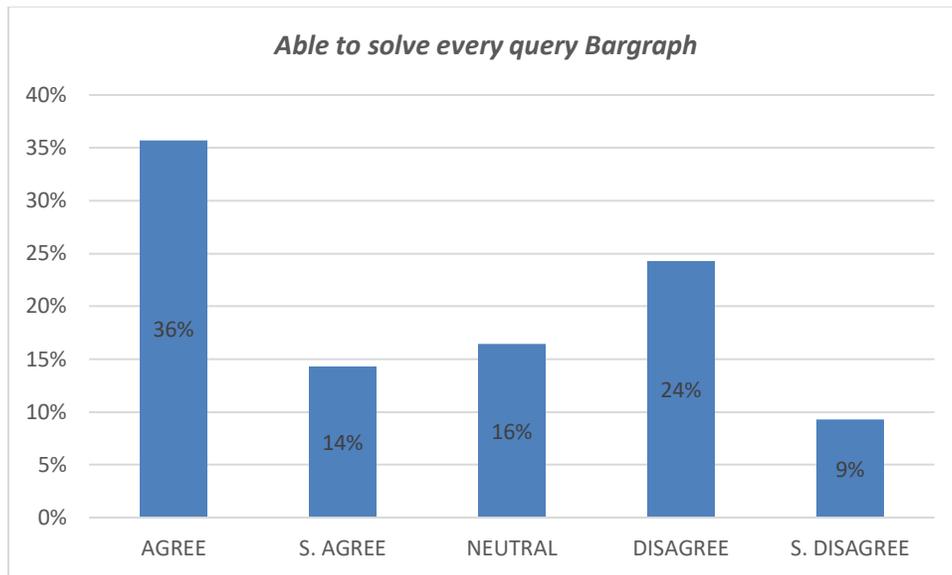
12% students are strongly agree that they are excited for attending the online classes very much.

23% students are neutral that it is 50-50% that they are excited for attending the online classes.

26% students are disagree with they are not excited for attending the online classes.

6% students are strongly disagree with they are not excited for attending the online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are excited for attending the online classes.



Question 15: Are you able to solve every query during online session?

From the above graph,

Students are facing many problems as online learning methods are new. But are those problems being solved? This is the question. Students often do not talk about their problems, but it is important to note that this does not hurt them. So are students getting answers by asking every question they have? We need to know this. When I asked, are you able to solve every query during online session? I got the following responses.

Out of the 140 students,

36% students are agree that they are able to solve every query during online session.

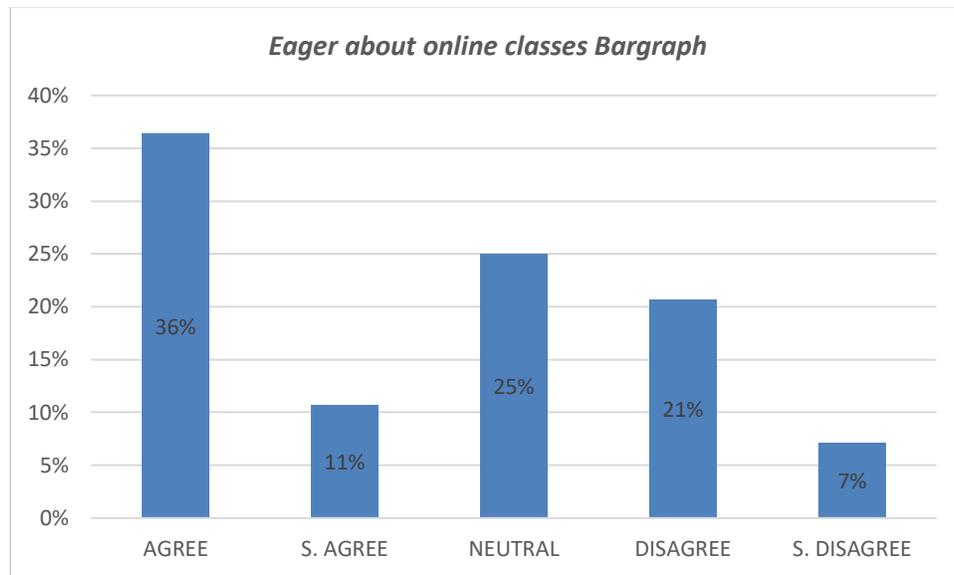
14% students are strongly agree that they are able to solve every query during online session very much.

16% students are neutral that it is 50-50% that they are able to solve every query during online session.

24% students are disagree with they are not able to solve every query during online session.

9% students are strongly disagree with they are not able to solve every query during online session very much.

As per the count on every session, it is simple to figure out that most of the students are disagree with they are not able to solve every query during online session.



Question 16: Are you eager about online classes?

From the above graph,

Students are assured that they will not lose anything due to online classes. If something doesn't make sense to you, you can watch it back in the video. Is he lazy because the student is at home? Is he eager to learn online school? It is important to know this. But this will be possible only when there is no mental stress on the students. When I asked, are you eager about online classes? I got the following responses.

Out of the 140 students,

36% students are agree that they are eager about online classes.

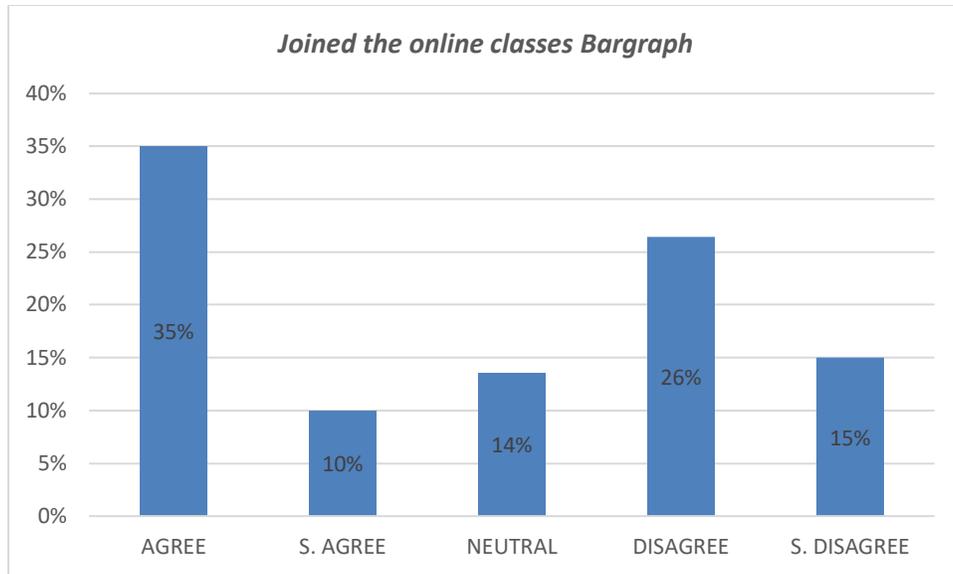
11% students are strongly agree that they are eager about online classes very much.

25% students are neutral that it is 50-50% that they are eager about online classes.

21% students are disagree with they are not eager about online classes.

7% students are strongly disagree with they are not eager about online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are eager about online classes.



Question 17: Had you before joined the online classes?

From the above graph,

E-learning is new to everyone from teachers to students. But seminars are often held online on different platforms. So has anyone ever experienced it by joining it? Are they benefiting from that experience now? Trying to figure this out. When I asked, Had you before joined the online classes? I got the following responses.

Out of the 140 students,

35% students are agree that they had joined online classes before.

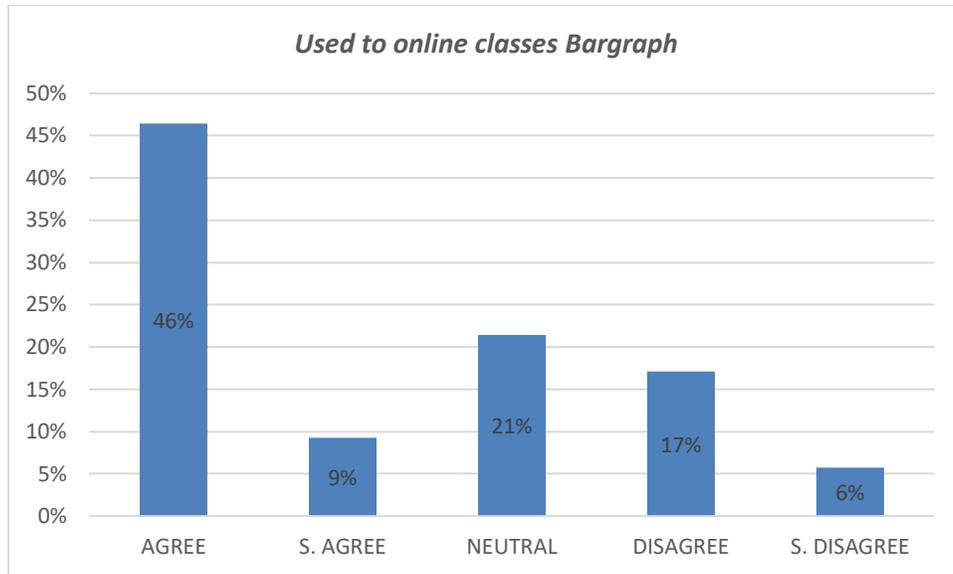
10% students are strongly agree that they had joined online classes before.

14% students are neutral that it is 50-50% that they had joined online classes before.

26% students are disagree with they had not joined online classes before.

15% students are strongly disagree with they had not joined online classes before.

As per the count on every session, it is simple to figure out that most of the students are agree that they had joined online classes before.



Question 18: Have you become used to online classes?

From the above graph,

Students have been joining online lectures for the past several months. They also have offline and online school experience. But are the students accustomed to this new method of education? Or do they like the old school system? Is online school benefiting them? Damage? It is important to learn this from students. When I asked, have you become used to online classes? I got the following responses.

Out of the 140 students,

46% students are agree that they have become used to online classes.

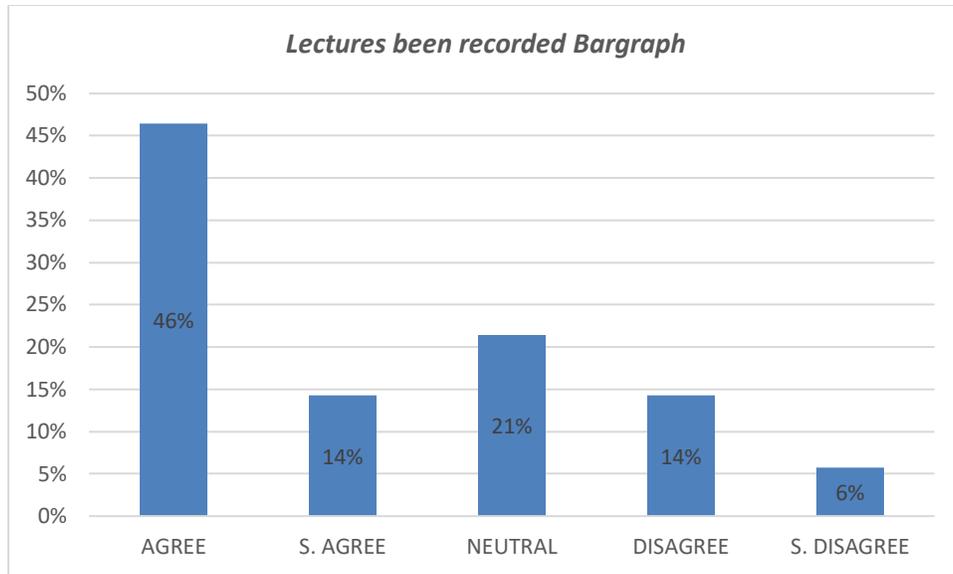
9% students are strongly agree that they have become used to online classes very much.

21% students are neutral that it is 50-50% that they have become used to online classes.

17% students are disagree with they have not become used to online classes.

6% students are strongly disagree with they have not become used to online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they have become used to online classes.



Question 19: Are your online lectures been recorded by teachers?

From the above graph,

Students' problems are often not solved by teachers due to lack of time. So is it to the detriment of the students? Many teachers record online lectures and send them to students. So if students have a problem and teachers don't have time, can they solve their doubts with the help of video? Trying to figure this out. When I asked, Are your online lectures been recorded by teachers? I got the following responses.

Out of the 140 students,

46% students are agree that their online lectures been recorded by teachers.

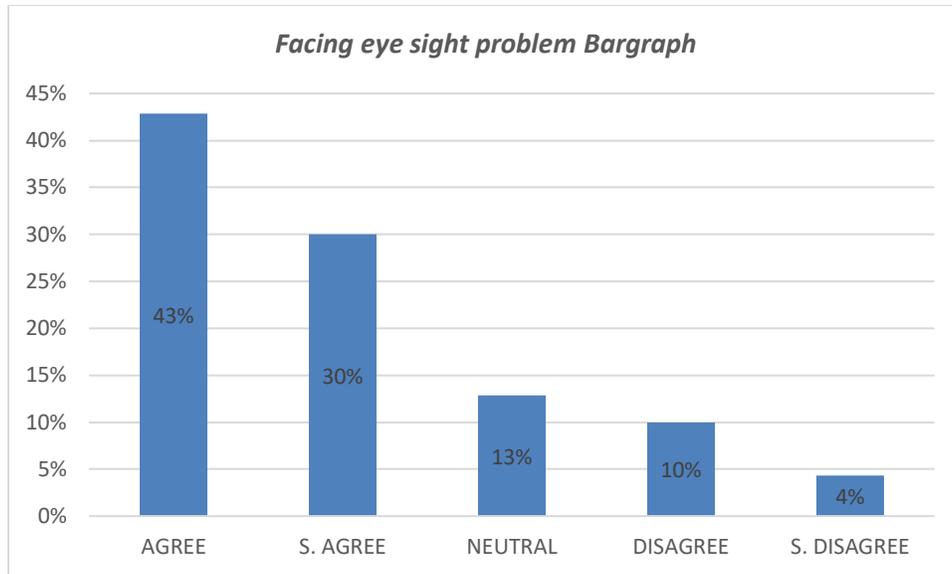
14% students are strongly agree that their online lectures been recorded by teachers.

21% students are neutral that it is 50-50% that their online lectures been recorded by teachers.

14% students are disagree with their online lectures been not recorded by teachers.

6% students are strongly disagree with their online lectures been not recorded by teachers.

As per the count on every session, it is simple to figure out that most of the students are agree that their online lectures been recorded by teachers.



Question 20: Due to online education are you facing eye sight problem?

From the above graph,

This online learning method has increased the health complaints of the students. Many people also suffer from eye pain. This has caused children to wear glasses at an early age. Students have started getting eye burns by lecturing online for hours. Is there any more trouble? Trying to figure this out. When I asked, Due to online education are you facing eye sight problem? I got the following responses.

Out of the 140 students,

43% students are agree that due to online education they are facing eye sight problem.

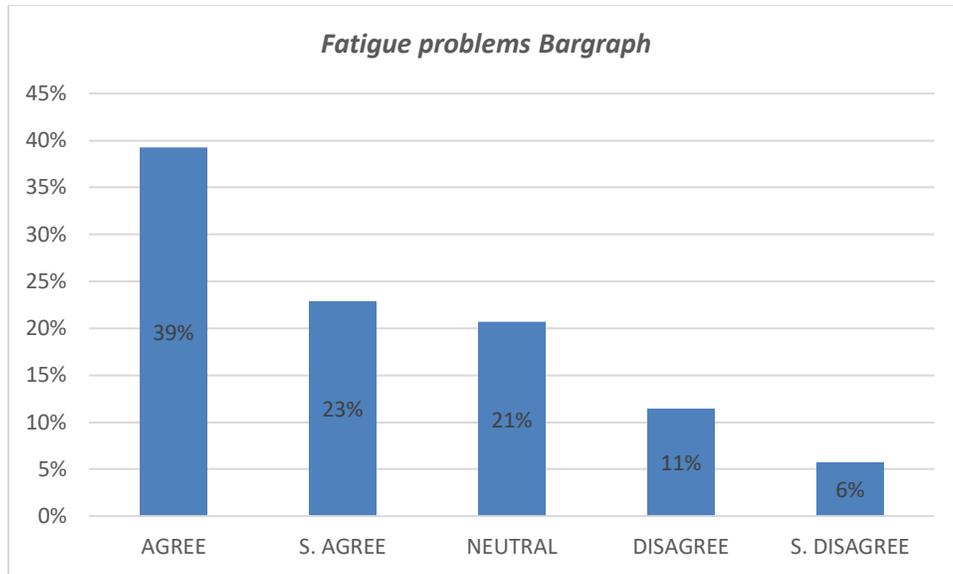
30% students are strongly agree that due to online education they are facing eye sight problem very much.

13% students are neutral that it is 50-50% that due to online education they are facing eye sight problem.

10% students are disagree with due to online education they are not facing eye sight problem.

4% students are strongly disagree with due to online education they are not facing eye sight problem very much.

As per the count on every session, it is simple to figure out that most of the students are agree that due to online education they are facing eye sight problem.



Question 21: Do you any problems related to fatigue during online classes?

From the above graph,

Children have more contact with the screen due to online learning comes. As a result, students' health complaints have increased. Students have to deal with many problems like not being able to sleep at night, waking up suddenly at night, drinking less water, having eye problems. So students often fall asleep while starting online school. Causing teachers to complain to parents. And it affects students' studies. When I asked, Do you any problems related to fatigue during online classes? I got the following responses.

Out of the 140 students,

39% students are agree that they have problems related to fatigue during online classes.

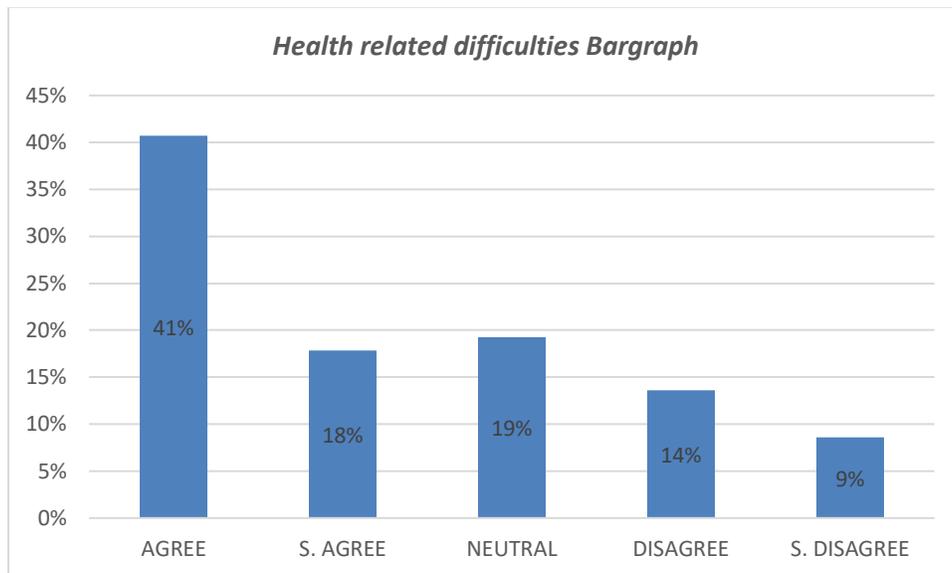
23% students are strongly agree that they have problems related to fatigue during online classes very much.

21% students are neutral that it is 50-50% that they have problems related to fatigue during online classes.

11% students are disagree with they have not problems related to fatigue during online classes.

6% students are strongly disagree with they have not problems related to fatigue during online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they have problems related to fatigue during online classes.



Question 22: Are you facing difficulties related to your health during online classes?

From the above graph,

The online learning system has completely shut down the physical movement of students. Their muscle mass has decreased and body fat has increased. It is not suitable for their physical growth. Lack of physical activity does not lead to excessive exposure to sunlight and proper eating which leads to high levels of calcium and vitamin D deficiency in students. For this, it is important for parents to take maximum care of their children. When I asked, are you facing difficulties related to your health during online classes? I got the following responses.

Out of the 140 students,

41% students are agree that they are facing difficulties related to your health during online classes.

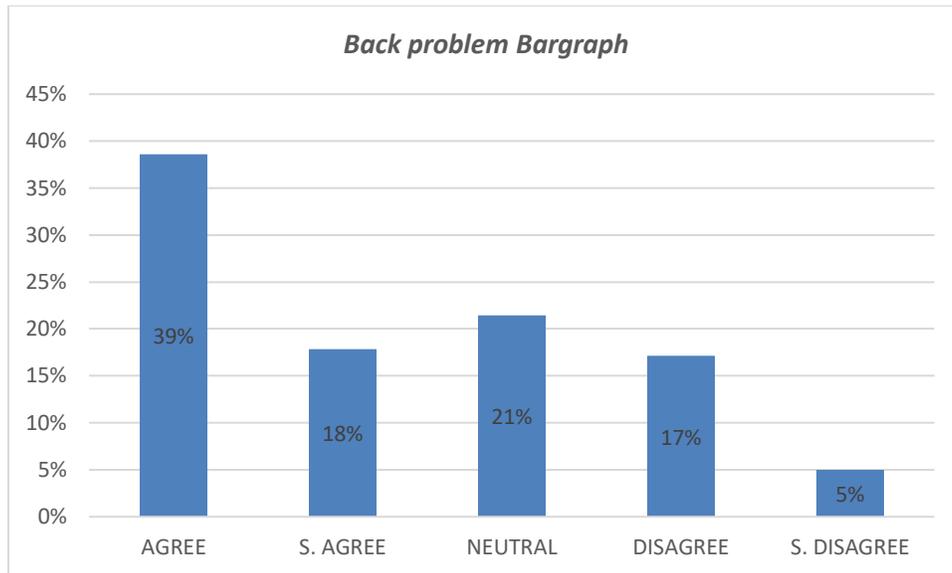
18% students are strongly agree that they are facing difficulties related to your health during online classes very much.

19% students are neutral that it is 50-50% that they are facing difficulties related to your health during online classes.

14% students are disagree with they are not facing difficulties related to your health during online classes.

9% students are strongly disagree with they are not facing difficulties related to your health during online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are facing difficulties related to your health during online classes.



Question 23: Do you face back problems during online classes?

From the above graph,

Sitting in front of the screen for too long is detrimental to students. At first the students did not have much trouble with this. But then, as the days went by, the complaints of the students increased. Headaches, which prevented students from paying much attention to their studies. Back pain, so the student cannot sit in one place for long. In fact the student does not even exercise due to lack of physical movement. As a result, one by one, their health complaints are increasing. When I asked, do you face back problems during online classes? I got the following responses.

Out of the 140 students,

39% students are agree that they face back problems during online classes.

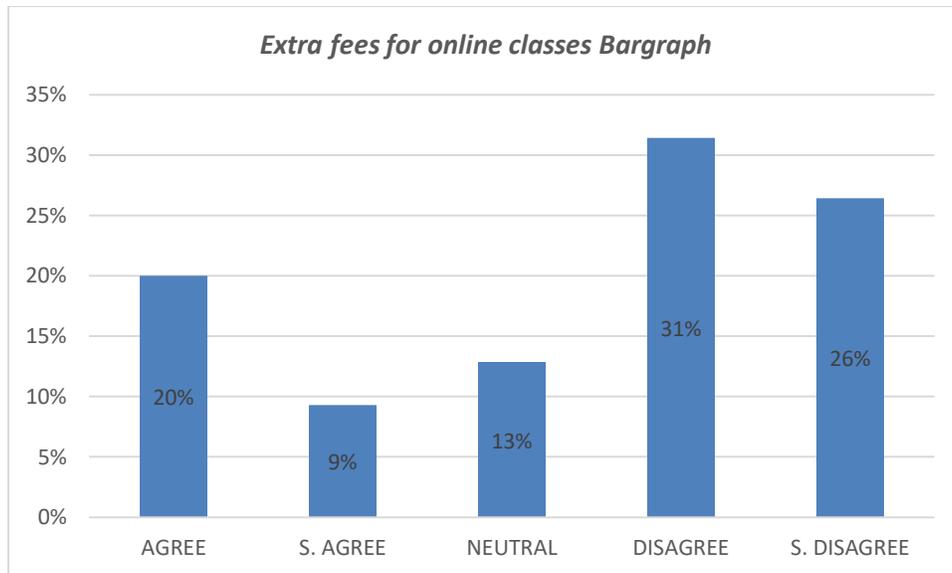
18% students are strongly agree that they face back problems during online classes very much.

21% students are neutral that it is 50-50% that they face back problems during online classes.

17% students are disagree with they didn't face back problems during online classes.

5% students are strongly disagree with they face back problems during online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they face back problems during online classes.



Question 24: Is your school charging extra fees for online classes?

From the above graph,

Many parents lost their jobs because of Corona. Many had financial problems at home. But the education of the students did not stop. But in all of this, aren't many schools charging higher fees? Trying to figure this out. We need to support each other during this time. So that this crisis will be resolved as soon as possible. Everything can be disguised but money cannot be disguised. It should be noted. When I asked, Is your school charging extra fees for online classes? I got the following responses.

Out of the 140 students,

20% students are agree that there school is charging extra fees for online classes.

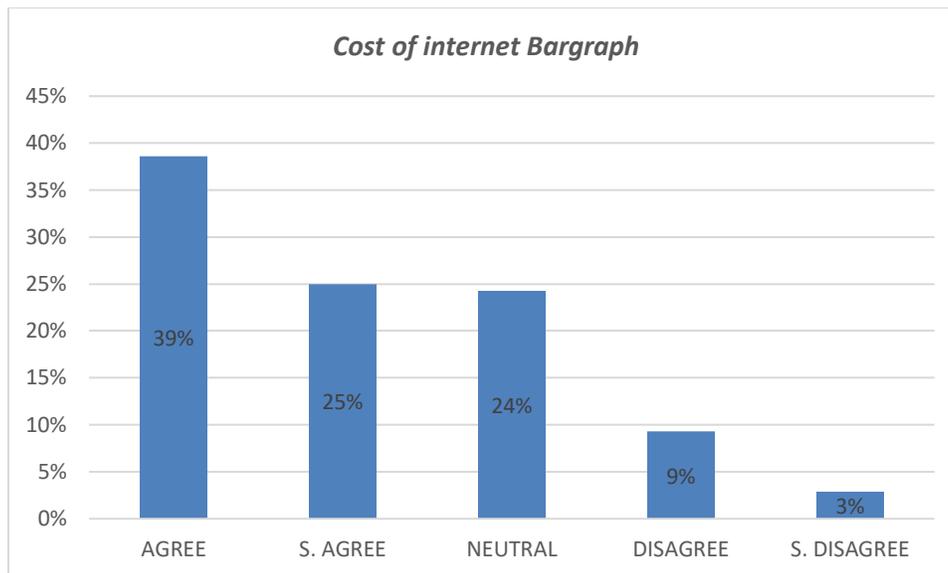
9% students are strongly agree that there school is charging extra fees for online classes.

13% students are neutral that it is 50-50% that their school is charging extra fees for online classes.

31% students disagree with their school is not charging extra fees for online classes.

26% students strongly disagree with their school is not charging extra fees for online classes.

As per the count on every session, it is simple to figure out that most of the students disagree with their school is not charging extra fees for online classes.



Question 25: Isn't it costly to use internet connection nowadays?

From the above graph,

Many parents have lost their jobs, which has led to a financial crisis at home. Therefore, they need to control every expense. In all of this, many schools are asking for extra fees. And being an online school, you have to buy internet connection extras. This has hampered the financial planning of the family. Even so, owning one is still beyond the reach of the average person. We have tried to find out if the families can afford these prices. When I asked, isn't it costly to use internet connection nowadays? I got the following responses.

Out of the 140 students,

39% students are agree that it is costly to use internet connection nowadays.

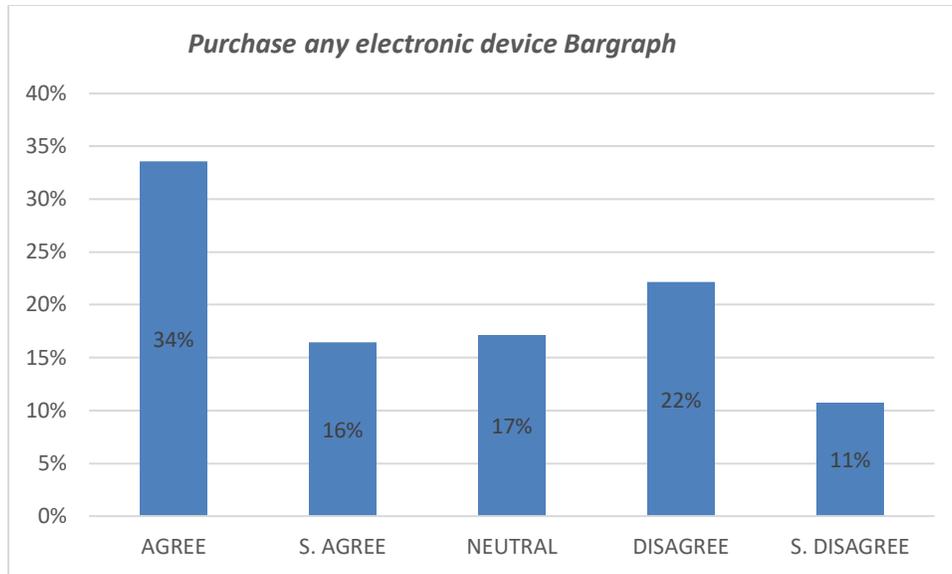
25% students are strongly agree that it is costly to use internet connection nowadays very much.

24% students are neutral that it is 50-50% that it is costly to use internet connection nowadays.

9% students are disagree with it is not costly to use internet connection nowadays.

3% students are strongly disagree with it is not costly to use internet connection nowadays very much.

As per the count on every session, it is simple to figure out that most of the students are agree that it is costly to use internet connection nowadays.



Question 26: Did you purchase any electronic device to attend lecture?

From the above graph,

The family is facing financial crisis as many people have lost their jobs this year. Even in this financial crisis, parents are trying to keep their students online. Parents are bringing electronic gadgets for their children even when the situation is not right. Parents are seen spending money on their children for internet connection along with smartphones so that their children's education should not stop, they should progress. When I asked, did you purchase any electronic device to attend lecture? I got the following responses.

Out of the 140 students,

34% students are agree that they purchase any electronic device to attend lecture.

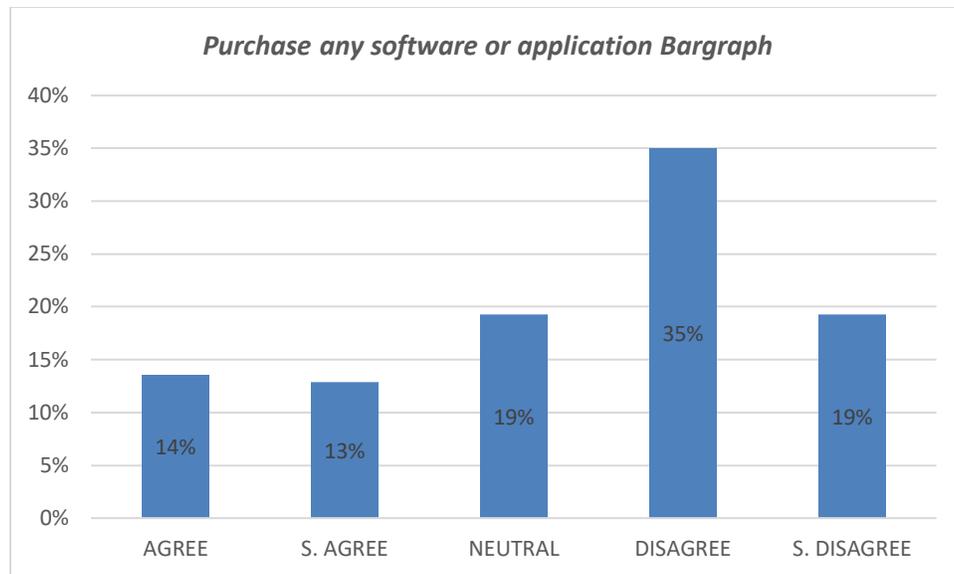
16% students are strongly agree they purchase any electronic device to attend lecture.

17% students are neutral that it is 50-50% that they purchase any electronic device to attend lecture.

22% students are disagree with they didn't purchase any electronic device to attend lecture.

11% students are strongly disagree with they didn't purchase any electronic device to attend lecture.

As per the count on every session, it is simple to figure out that most of the students are agree that they purchase any electronic device to attend lecture.



Question 27: Did you purchase any software or application provided by school?

From the above graph,

Nowadays, it is necessary to learn new things in the time of Corona. Students are also embracing this e-learning facility. Schools also had to ask, through which medium should students be taught? how to keep students learning through Zoom, Google Meet, YouTube? This question was posed before the school. Many schools developed their own software and gave it to the students. So that students can school online through that software. But have other schools done the same? Trying to figure this out. When I asked, did you purchase any software or application provided by school? I got the following responses.

Out of the 140 students,

14% students are agree that they purchase any software or application provided by school.

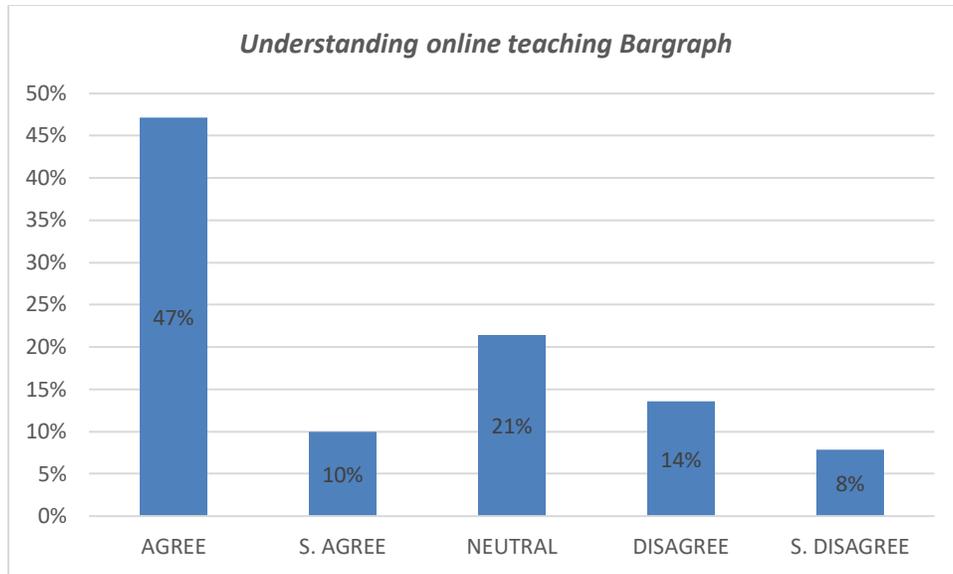
13% students are strongly agree they purchase any software or application provided by school.

19% students are neutral that it is 50-50% that they purchase any software or application provided by school.

35% students are disagree with they didn't purchase any software or application provided by school.

19% students are strongly disagree with they didn't purchase any software or application provided by school.

As per the count on every session, it is simple to figure out that most of the students are disagree with they didn't purchase any software or application provided by school.



Question 28: Are you understanding online teaching?

From the above graph,

When school started, parents used to complain that students did not understand what was being taught. But now the school is online. So do students understand what is being taught now? It is important to know this. It is important to know how much the student is aware of the curriculum taught in the school. As much as teachers have responsibilities, so do parents. When I asked, are you understanding online teaching? I got the following responses.

Out of the 140 students,

47% students are agree that they are understanding online teaching.

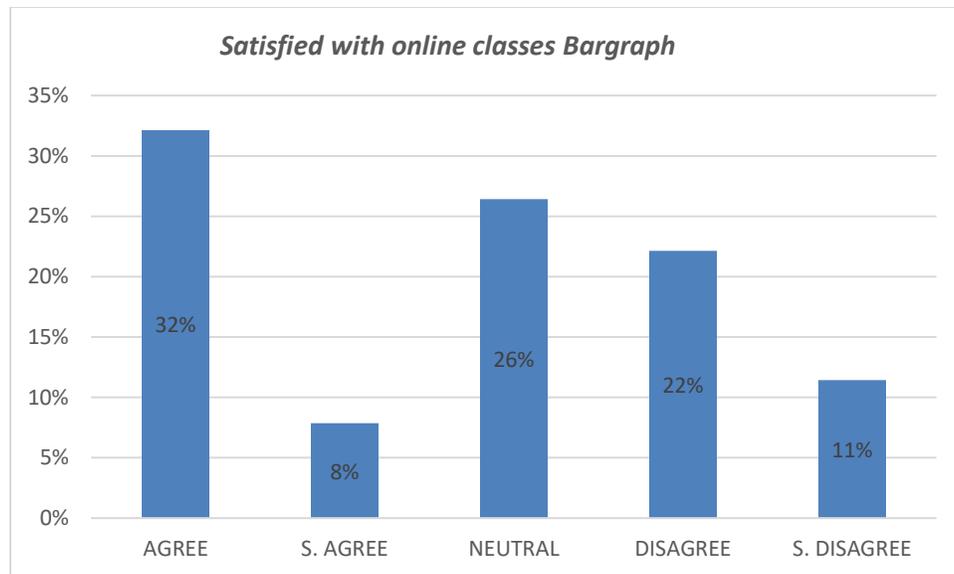
10% students are strongly agree they are understanding online teaching very much.

21% students are neutral that it is 50-50% that they are understanding online teaching.

14% students are disagree with they are not understanding online teaching.

8% students are strongly disagree with they are not understanding online teaching very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are understanding online teaching.



Question 29: Are you satisfied with online classes?

From the above graph,

As online learning methods are new, students are being affected. Do students understand what is being taught? Do they like to sit at home and study? In fact, how do students feel about this new method of online learning? It is important to know this. Do they really like this teaching method? It is important to know this. When I asked, are you satisfied with online classes? I got the following responses.

Out of the 140 students,

32% students are agree that they are satisfied with online classes.

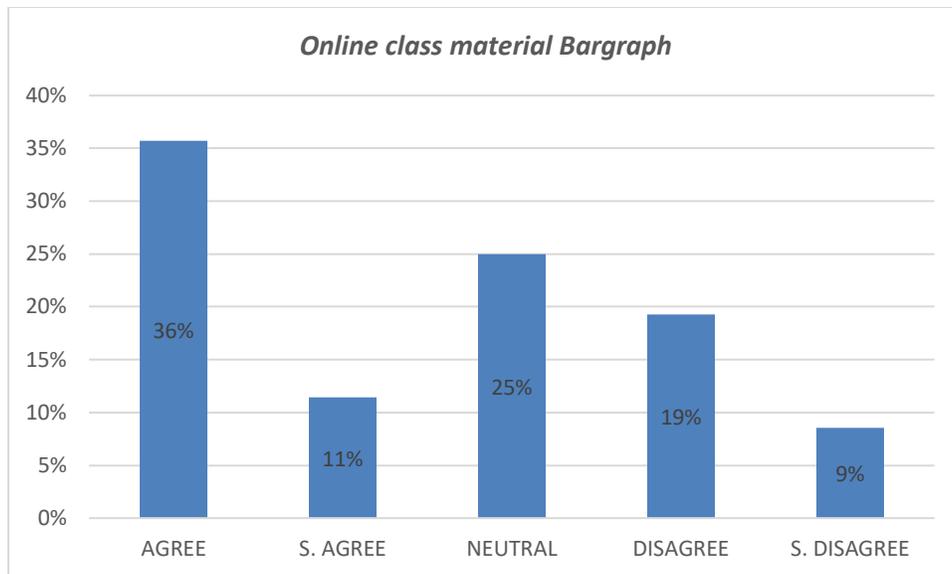
8% students are strongly agree they are satisfied with online classes very much.

26% students are neutral that it is 50-50% that they are satisfied with online classes.

22% students are disagree with they are not satisfied with online classes.

11% students are strongly disagree with they are not satisfied with online classes very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are satisfied with online classes.



Question 30: The online class material were useful & accurate?

From the above graph,

Is the study material that the teacher is giving to the students during the start of the online school really useful to the students? Is the student drawing his own notes while learning? Does the student understand the subject and ask questions to the teacher? Is the teacher who is giving them study material useful for the upcoming exam? This is important to know. When I asked, the online class material were useful & accurate? I got the following responses.

Out of the 140 students,

36% students are agree that the online class material were useful & accurate.

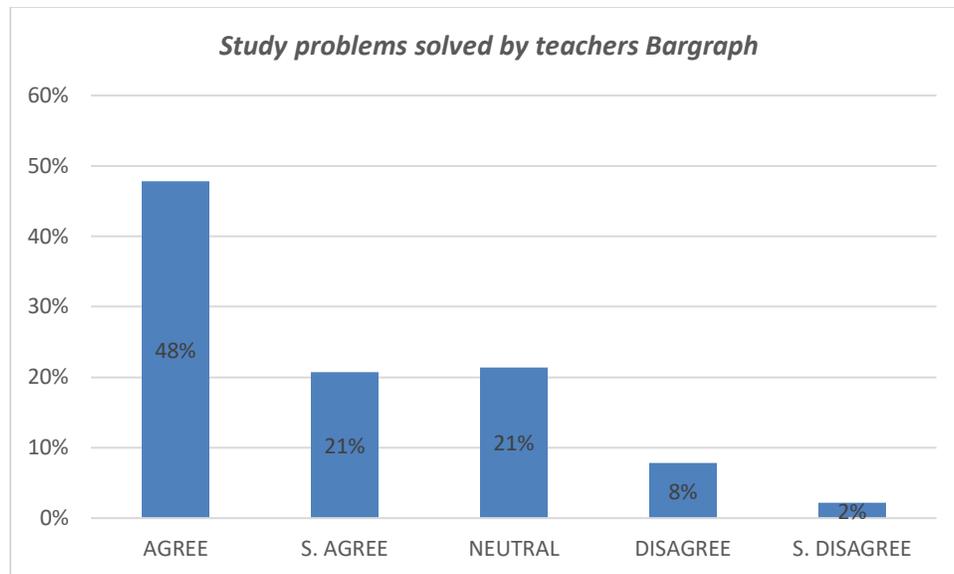
11% students are strongly agree the online class material were useful & accurate very much.

25% students are neutral that it is 50-50% that the online class material were useful & accurate.

19% students are disagree with the online class material were not useful & accurate.

9% students are strongly disagree with the online class material were useful & accurate very much.

As per the count on every session, it is simple to figure out that most of the students are agree that the online class material were useful & accurate.



Question 31: Did your study problems were solved by your teachers?

From the above graph,

While in school, parents used to complain that the teachers did not solve the problems faced by the students. The student does not understand what he is learning. Teachers also try to solve students' problems on their own. But sometimes it is not possible due to lack of time. Since this online learning method often leads to connection problems, less time is spent lecturing. And so the students' problems are not solved immediately. But do teachers help students solve their problems later? It is important to know this. When I asked, did your study problems were solved by your teachers? I got the following responses.

Out of the 140 students,

48% students are agree that their study problems were solved by teachers.

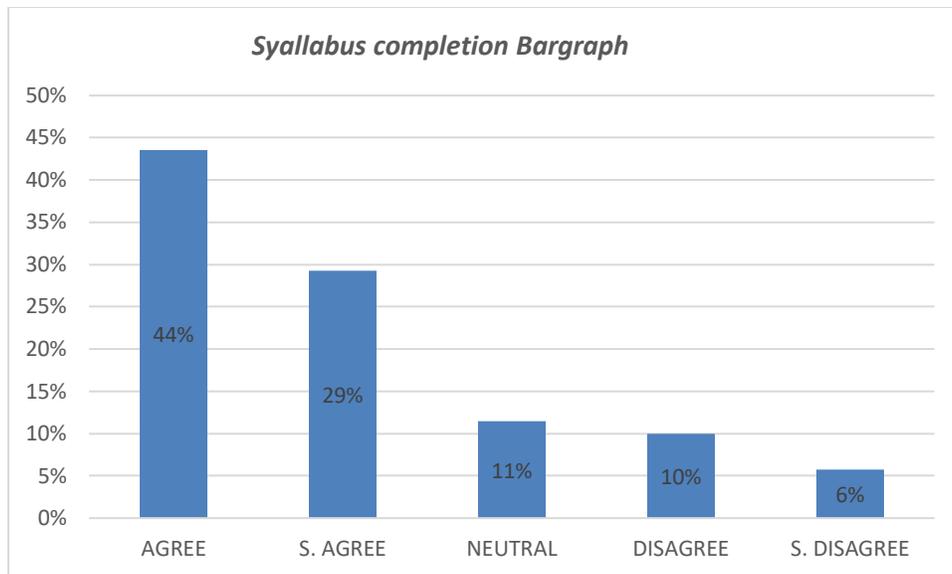
21% students are strongly agree their study problems were solved by teachers very much.

21% students are neutral that it is 50-50% that their study problems were solved by teachers.

8% students are disagree with their study problems were not solved by teachers.

2% students are strongly disagree with their study problems were not solved by teachers very much.

As per the count on every session, it is simple to figure out that most of the students are agree that their study problems were solved by teachers.



Question 32: Does your syllabus get completed before the exam?

From the above graph,

Ever since online learning started, both teachers and students have been facing problems. Often the problem of internet connectivity, health problems do not lead to lectures. Due to lack of time, some topics are often taught or not? At the same time, are the teachers teaching the entire syllabus? By the time the students have the exam, has the entire syllabus been completed by the teacher? It was important to know. When I asked, does your syllabus get completed before the exam? I got the following responses.

Out of the 140 students,

44% students are agree that their syllabus get completed before the exam.

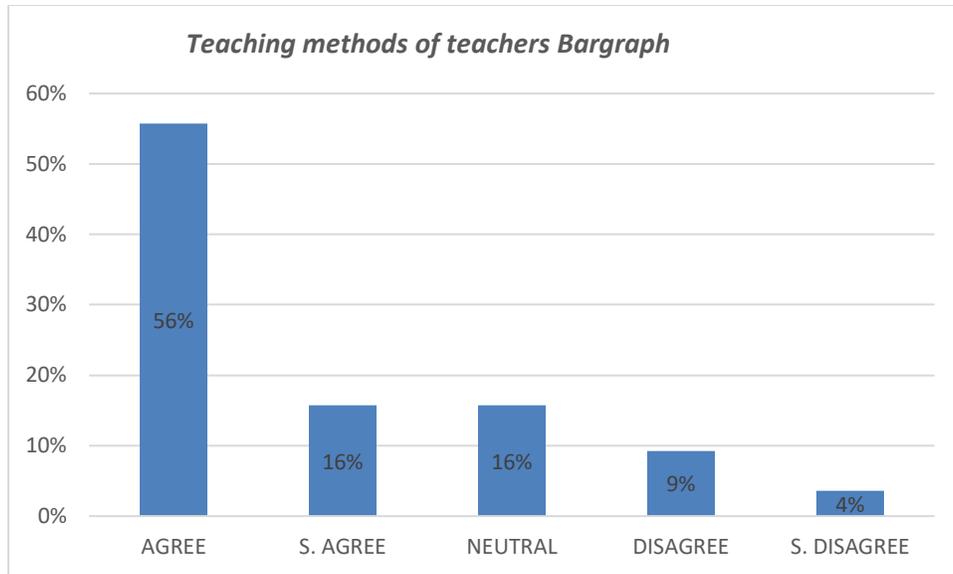
29% students are strongly agree their syllabus get completed before the exam very much.

11% students are neutral that it is 50-50% that their syllabus get completed before the exam.

10% students are disagree with their syllabus didn't get completed before the exam.

6% students are strongly disagree with their syllabus didn't get completed before the exam very much.

As per the count on every session, it is simple to figure out that most of the students are agree that their syllabus get completed before the exam.



Question 33: The teacher methods helped in understanding the topic better?

From the above graph,

Keeping students engaged while teaching, whether online or offline, is just as challenging. The current online education system makes it difficult for teachers to control students as the student is at home. So teachers are trying to teach students a lesson using various tricks. So that students' attention is focused on the screen. It is seen that the teacher is using various photos, videos and animations for this. For this reason, why does it help the students to understand the lesson easily or not? We should try to know this. When I asked, the teacher methods helped in understanding the topic better? I got the following responses.

Out of the 140 students,

56% students are agree that the teachers methods helped in understanding the topic better.

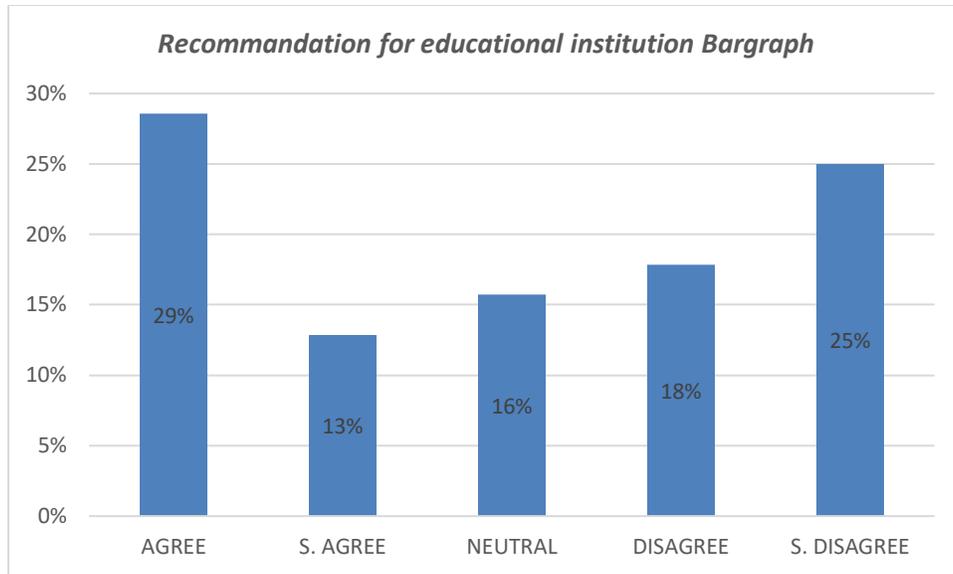
16% students are strongly agree the teachers methods helped in understanding the topic better very much.

16% students are neutral that it is 50-50% that the teachers methods helped in understanding the topic better.

9% students are disagree with the teachers methods didn't helped in understanding the topic better.

4% students are strongly disagree with the teachers methods didn't helped in understanding the topic better very much.

As per the count on every session, it is simple to figure out that most of the students are agree that the teacher methods helped in understanding the topic better.



Question 34: Do you recommend educational institution to continue with online classes after the corona virus?

From the above graph,

Today, coronaviruses have completely changed the way we teach. The school is now online from offline mode. At first, it was difficult for both teachers and students to grasp. At the same time, it is seen that the parents are also suffering. But if students like this teaching method and continue the same online learning method even after coronavirus, will it work? This is important to know. Because today's students are the pillars of tomorrow for the country. When I asked, do you recommend educational institution to continue with online classes after the corona virus? I got the following responses.

Out of the 140 students,

29% students are agree that they would recommend educational institution to continue with online classes after the corona virus.

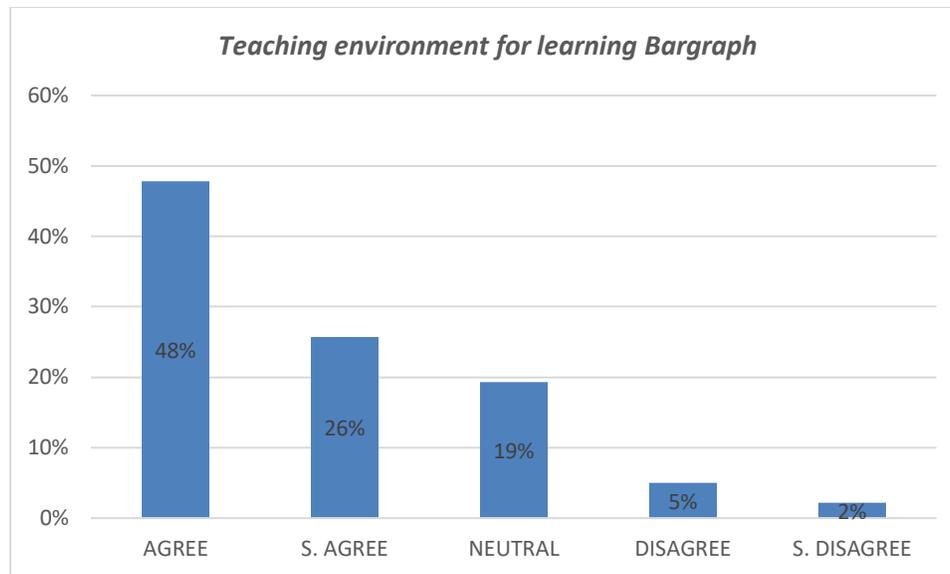
13% students are strongly agree they would recommend educational institution to continue with online classes after the corona virus.

16% students are neutral that it is 50-50% that they would recommend educational institution to continue with online classes after the corona virus.

18% students are disagree with they would not recommend educational institution to continue with online classes after the corona virus.

25% students are strongly disagree with they would not recommend educational institution to continue with online classes after the corona virus.

As per the count on every session, it is simple to figure out that most of the students are agree that they would recommend educational institution to continue with online classes after the corona virus.



Question 35: The teaching environment at the class helped in better learning?

From the above graph,

It is very important to stay positive in today's corona epidemic. The situation outside is very bad. And it affects more children. It is the responsibility of the teacher to keep the students positive. In many people's homes, the corona is a thimble. As a result, the mentality of the students has deteriorated. But teachers should teach students the importance of staying positive in mind and boost their morale. When I asked, the teaching environment at the class helped in better learning? I got the following responses.

Out of the 140 students,

48% students are agree that the teaching environment at the class helped in better learning.

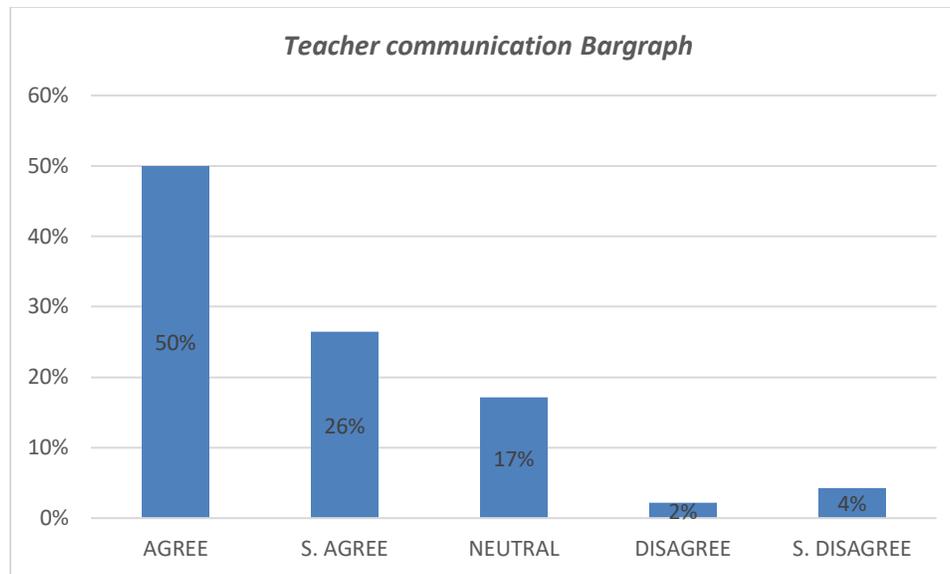
26% students are strongly agree the teaching environment at the class helped in better learning very much.

19% students are neutral that it is 50-50% that the teaching environment at the class helped in better learning.

5% students are disagree with the teaching environment at the class doesn't helped in better learning.

2% students are strongly disagree with the teaching environment at the class doesn't helped in better learning very much.

As per the count on every session, it is simple to figure out that most of the students are agree that the teaching environment at the class helped in better learning.



Question 36: Is your teacher is very good at communication?

From the above graph,

Does the student understand what the teacher is teaching the students? Because it depends on the way the teacher speaks and how the student understands. Does the student understand what the teacher is saying? If the teacher teaches in a way that the students can understand quickly, it helps the students to understand it quickly. Children's future depended not only on the study they were doing but also on the teaching of the teacher. When I asked, is your teacher is very good at communication? I got the following responses.

Out of the 140 students,

50% students are agree that their teacher is very good at communication.

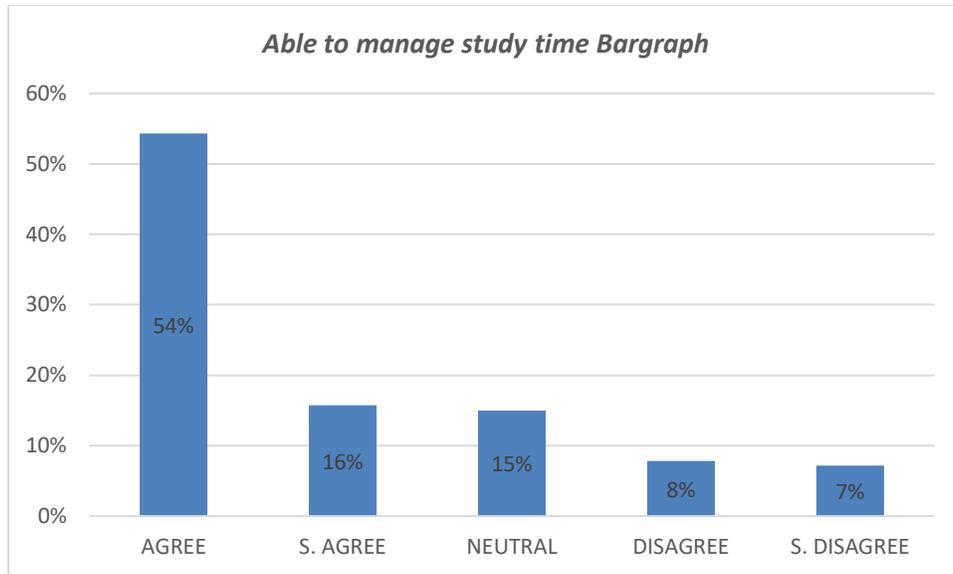
28% students are strongly agree their teacher is very good at communication very much.

17% students are neutral that it is 50-50% that their teacher is very good at communication.

2% students are disagree with their teacher is not very good at communication.

4% students are strongly disagree with their teacher is not very good at communication very much.

As per the count on every session, it is simple to figure out that most of the students are agree that their teacher is very good at communication.



Question 37: Are you able to manage your study time effectively and easily complete homework on time?

From the above graph,

The parents of many students have also suffered from corona, which has worsened the mental state of the students. But in all of this, they are paying close attention to their studies while starting an online school. But can't they manage everything else with study? It is important to know this. That means giving them time to study and other tasks to complete their homework is a challenging task for them. When I asked, are you able to manage your study time effectively and easily complete homework on time? I got the following responses.

Out of the 140 students,

54% students are agree that they are able to manage their study time effectively and easily complete homework on time.

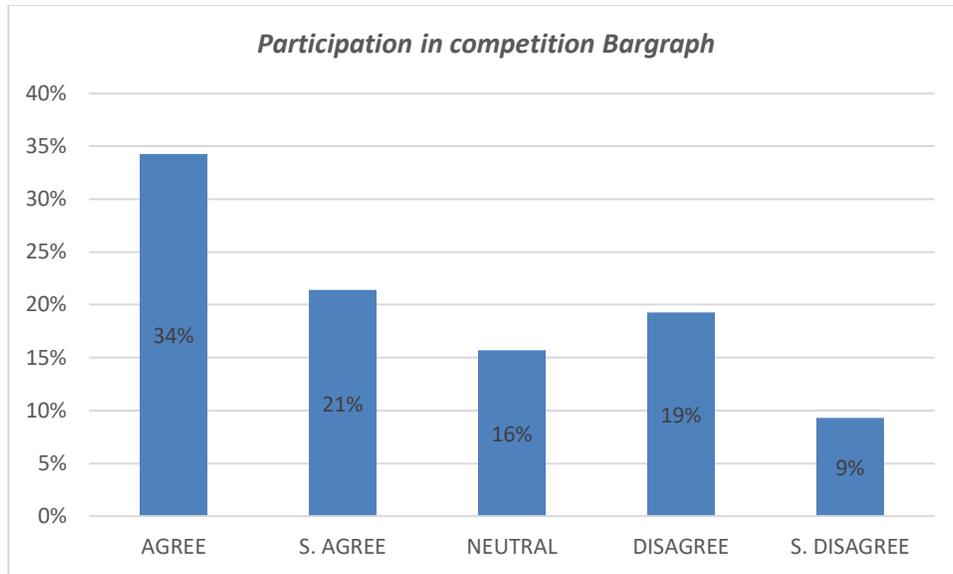
16% students are strongly agree they are able to manage their study time effectively and easily complete homework on time very much.

15% students are neutral that it is 50-50% that they are able to manage their study time effectively and easily complete homework on time.

8% students are disagree with they are not able to manage their study time effectively and easily complete homework on time.

7% students are strongly disagree with they are not able to manage their study time effectively and easily complete homework on time very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are able to manage their study time effectively and easily complete homework on time.



Question 38: Have you performed any competition during online studies?

From the above graph,

While in school the teacher used to motivate the students to participate in various competitions. Now that the school is online, students don't just have to pay attention to their studies. They should participate in the upcoming online competitions. We need to look at how we can develop the skills we have. We have to try our skills by participating in various competitions. It is not necessary to get prizes in the competition but the students should get experience. When I asked, have you performed any competition during online studies? I got the following responses.

Out of the 140 students,

34% students are agree that they performed competition during online studies.

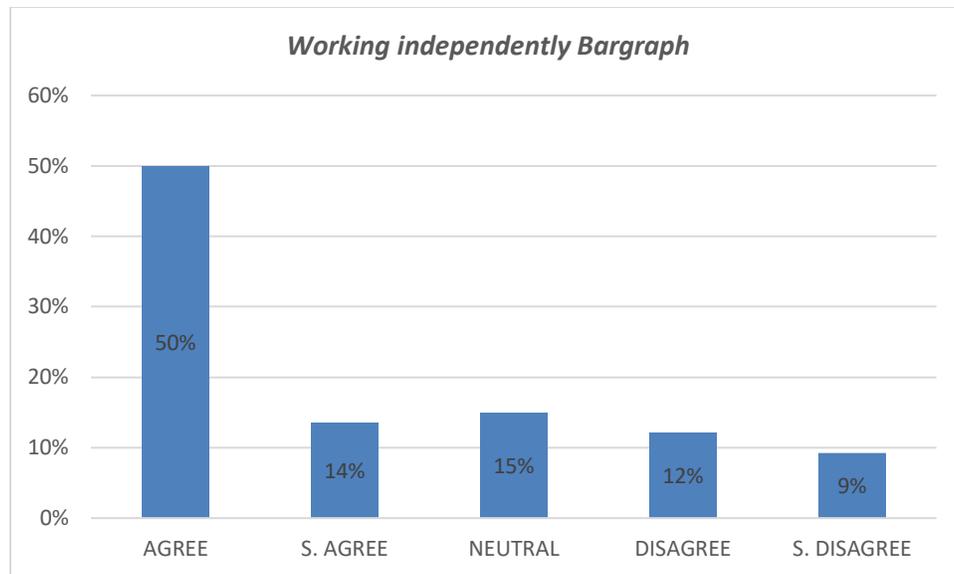
21% students are strongly agree they performed competition during online studies very much.

16% students are neutral that it is 50-50% that they are able to manage they performed competition during online studies.

19% students are disagree with they didn't performed competition during online studies.

9% students are strongly disagree with they didn't performed competition during online studies very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they performed competition during online studies.



Question 39: As a student, you enjoy working independently?

From the above graph,

All the students are doing online school, logging in on their own. But in the beginning, when it was all new, did they have problems doing it? But now the children are doing their work alone. Homework, online school, are they all managing now alone? We should try to know this. When I asked, as a student, you enjoy working independently? I got the following responses.

Out of the 140 students,

50% students are agree that as a student, they are enjoy working independently.

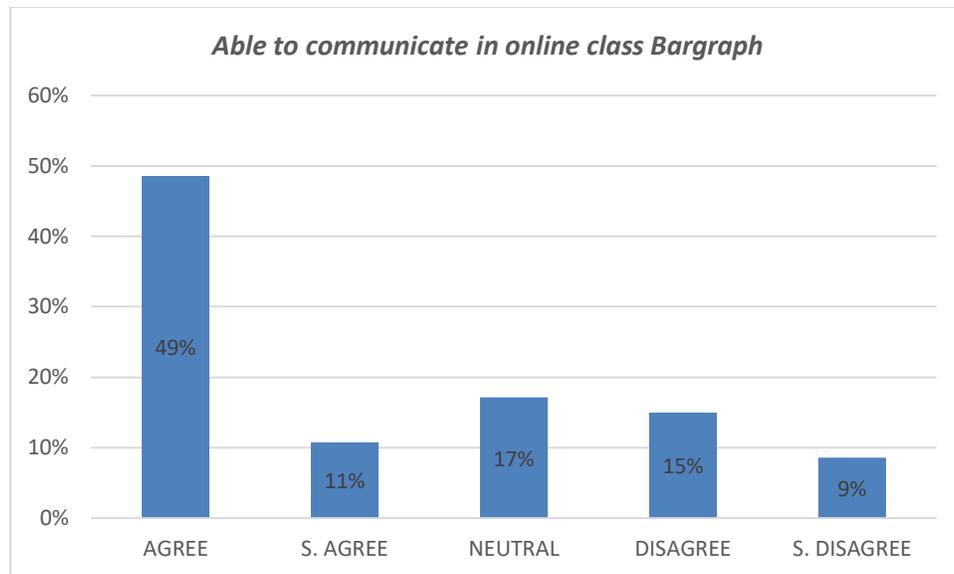
14% students are strongly agree as a student, they are enjoy working independently very much.

15% students are neutral that it is 50-50% that as a student, they are enjoy working independently.

12% students are disagree with as a student, they are not enjoy working independently.

9% students are strongly disagree with as a student, they are not enjoy working independently very much.

As per the count on every session, it is simple to figure out that most of the students are agree that as a student, they are enjoy working independently.



Question 40: Are you able to communicate online in class?

From the above graph,

The online school that started in the Corona epidemic is a new thing for students. Whether it is a problem of internet connectivity or a health problem at home, students have to attend school online. But are students resolving their doubts by asking teachers without hesitation? We should try to know this. When I asked, are you able to communicate online in class? I got the following responses.

Out of the 140 students,

49% students are agree that they are able to communicate online in class.

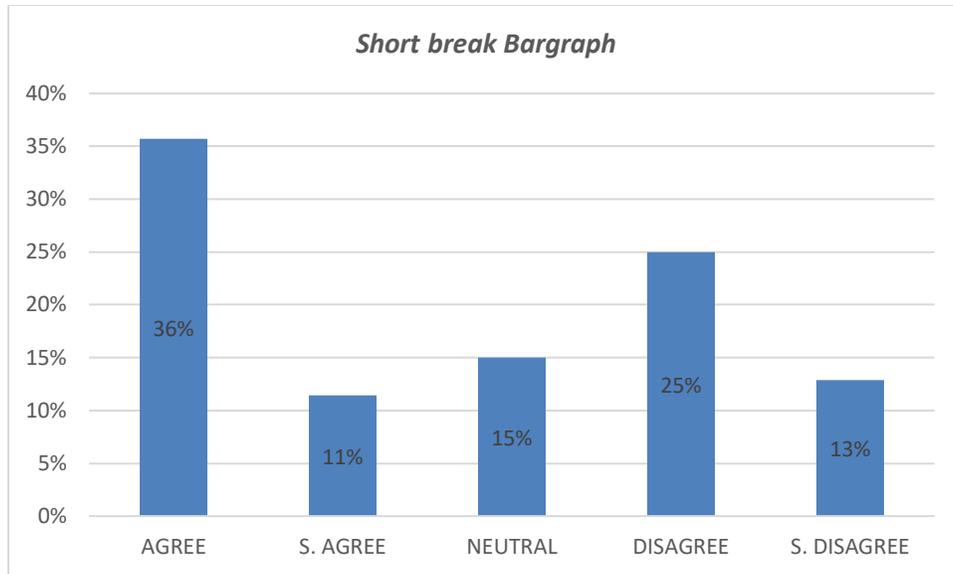
11% students are strongly agree they are able to communicate online in class very much.

17% students are neutral that it is 50-50% that they are able to communicate online in class.

15% students are disagree with they are not able to communicate online in class.

9% students are strongly disagree with they are not able to communicate online in class very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they are able to communicate online in class.



Question 41: Does your online classes also includes short break?

From the above graph,

Students face many difficulties while starting online school. Often there is no focus on the screen. What teachers are teaching starts to feel boring. For this too teachers try to engage them by using various videos, images. But out of all this, students want a little break somewhere. But are they getting this break in every lecture? We should try to know this. When I asked, does your online classes also includes short break? I got the following responses.

Out of the 140 students,

36% students are agree that their online classes includes short break.

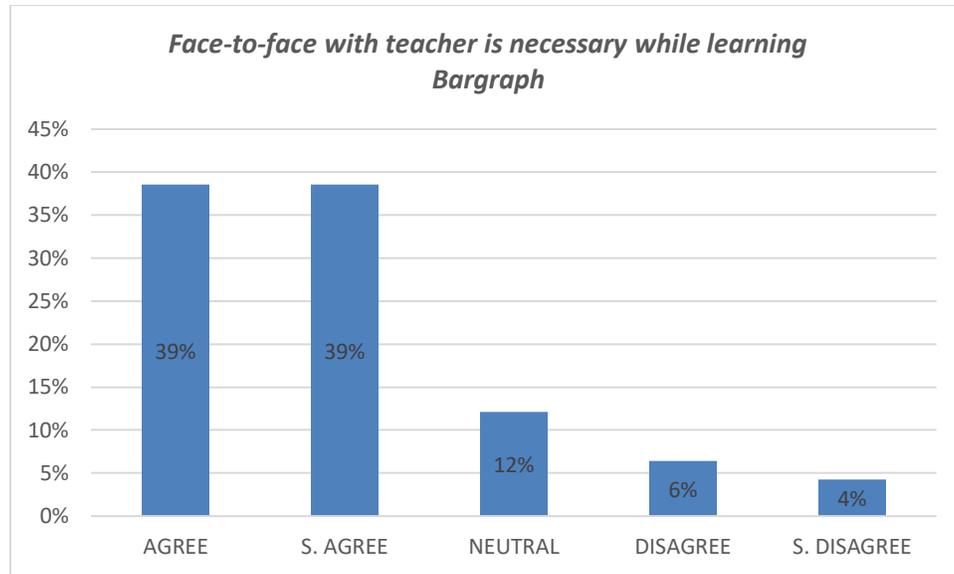
11% students are strongly agree their online classes includes short break.

15% students are neutral that it is 50-50% that their online classes includes short break.

25% students are disagree with their online classes doesn't includes short break.

13% students are strongly disagree with their online classes doesn't includes short break.

As per the count on every session, it is simple to figure out that most of the students are agree that their online classes includes short break.



Question 42: You feel that face-to-face contact with your teacher is necessary to learn?

From the above graph,

From an early age, students have become accustomed to being in front of a teacher. But this online learning method has created a wall of screens between students and teachers. Because of this, students feel that they should learn by going to school. Because they understand that they understand more when they have a teacher face to face. And that's what we should try to know. When I asked, you feel that face-to-face contact with your teacher is necessary to learn? I got the following responses.

Out of the 140 students,

39% students are agree that they feel face-to-face contact with teacher is necessary to learn.

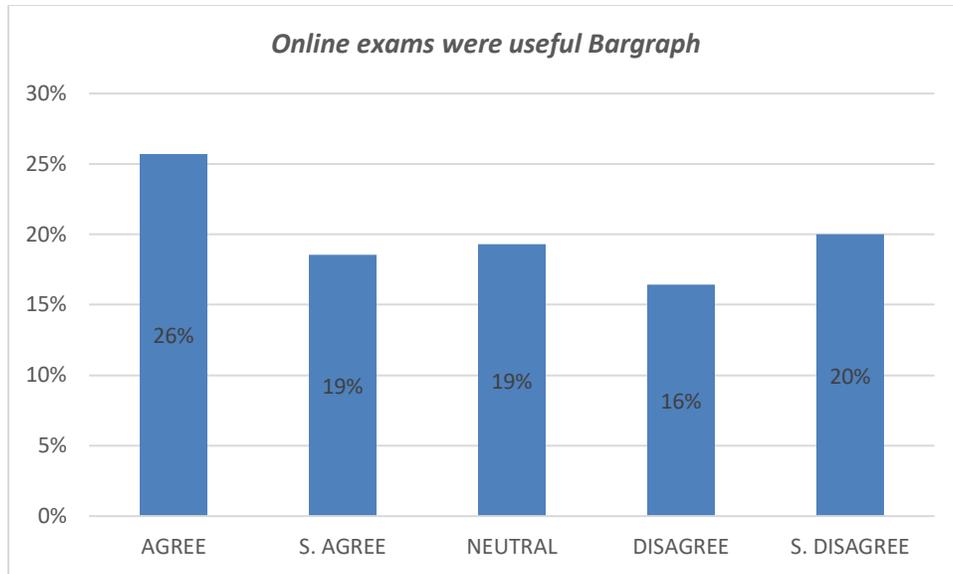
39% students are strongly agree they feel face-to-face contact with teacher is necessary to learn very much.

12% students are neutral that it is 50-50% that they feel face-to-face contact with teacher is necessary to learn.

6% students are disagree with they feel face-to-face contact with teacher is not necessary to learn.

4% students are strongly disagree with they feel face-to-face contact with teacher is not necessary to learn very much.

As per the count on every session, it is simple to figure out that most of the students are agree and strongly agree that they feel face-to-face contact with teacher is necessary to learn.



Question 43: Were online exams useful?

From the above graph,

As the teaching methods are online, examinations are also being conducted online. But are students benefiting from all this? Because when the children went to school, the teacher was in front of them. But now the student is taking the exam at home. So the question is, are the students who are starting online exams really useful or not? We should try to know this. When I asked, were online exams useful? I got the following responses.

Out of the 140 students,

26% students are agree that they feel online exams were useful.

19% students are strongly agree they feel online exams were useful very much.

19% students are neutral that it is 50-50% that they feel online exams were useful.

16% students are disagree with they feel online exams were not useful.

20% students are strongly disagree with they feel online exams were not useful very much.

As per the count on every session, it is simple to figure out that most of the students are agree that they feel online exams were useful.

## HYPOTHESIS TESTING

### Hypothesis Testing:

Hypothesis testing is an act in statistics whereby an analyst tests an assumption regarding a population parameter.

### Purpose of hypothesis testing:

A hypothesis is used in an experiment to define the relationship between two variables. The purpose of a hypothesis is to find the answer to a question.

### Null Hypothesis:

In hypothesis testing, your null hypothesis is that *nothing* will change or improve between the two groups of data. Obviously, this is not what you want to prove, but rather what you want to disprove.

Example: Cats express no food preference based on colour.

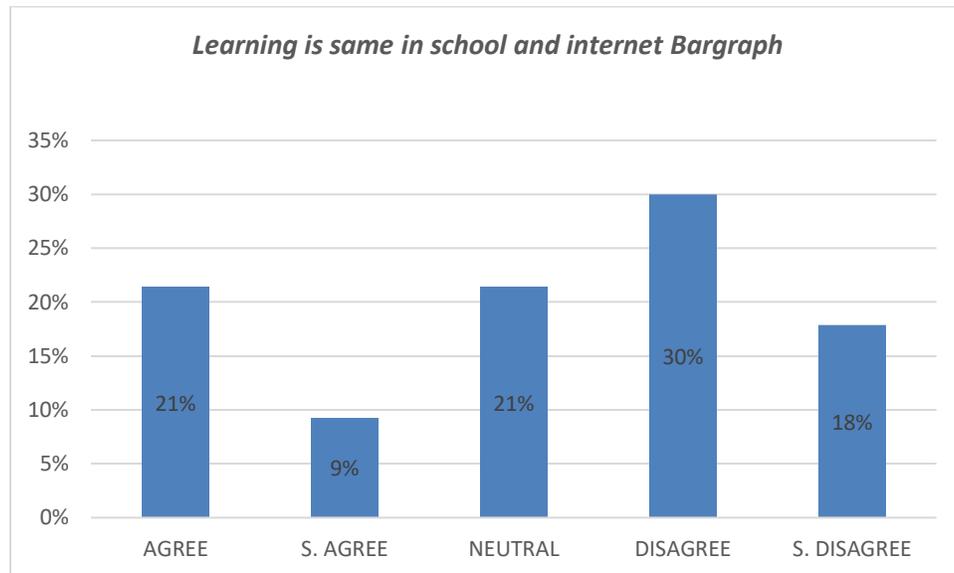
### Alternative Hypothesis:

Alternative hypothesis is what you are really aiming to prove through testing. The alternate hypothesis is simply the opposite of the null hypothesis. Hypothesis statement is actually the **alternate hypothesis**. Therefore, you want to disprove your null hypothesis in order to prove the alternate.

Example: Cats express food preference based on colour.

1)  $H_0$ : Learning is same in class and at home on the internet is agreed.

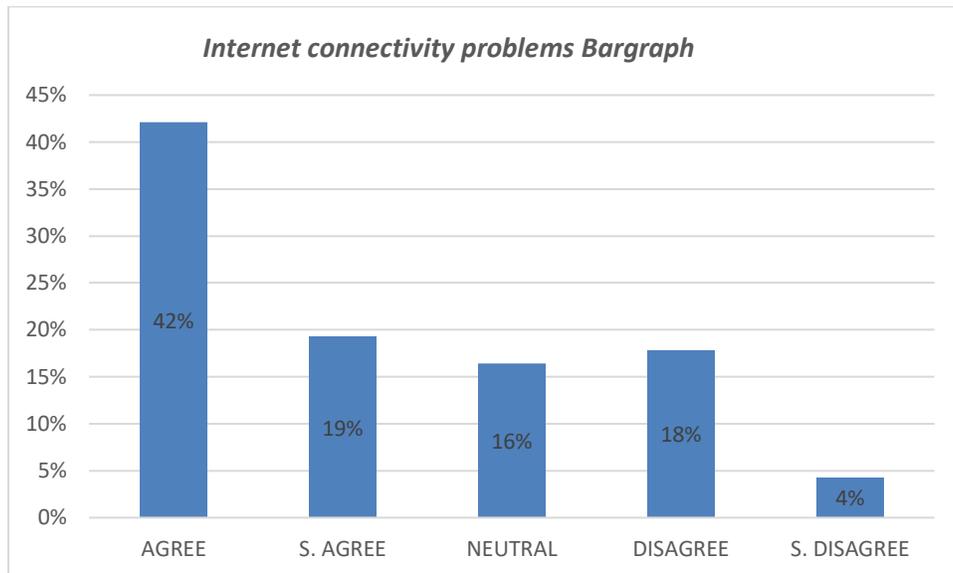
$H_1$ : Learning is same in class and at home on the internet is not agreed.



- From the above graph we can see that the proportion of students who are agreed by the statement that learning is same in class and at home on the internet is 21%. That means the proportion is different for both categories.
- Hence we reject null hypothesis.
- So, we do not have sufficient evidence to support our claim that learning is same in the class and at home on the internet.

2)  $H_0$ : Students face internet connectivity problem is agreed.

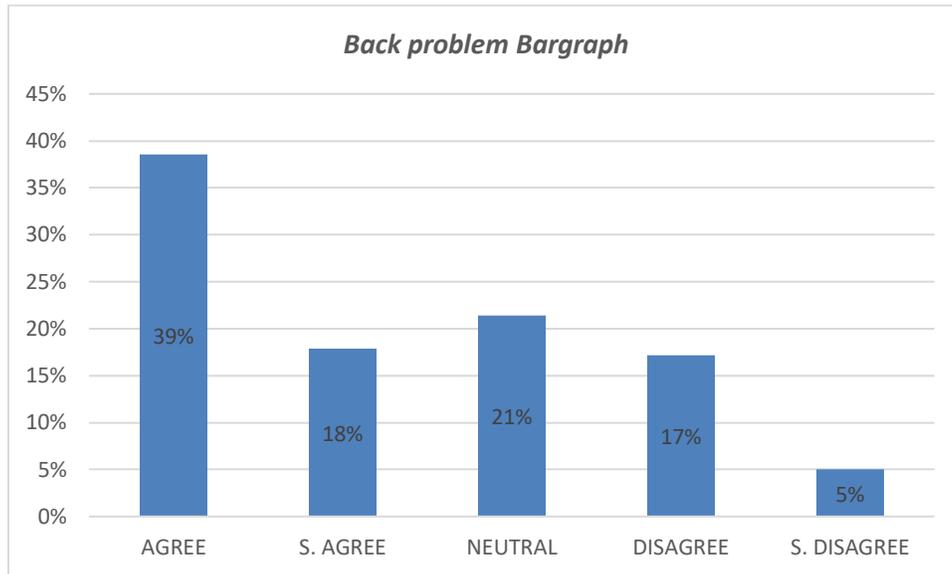
$H_1$ : Students do not face internet connectivity problem is agreed.



- From the above graph we can see that the proportion of students who are agreed by the statement that they face internet connectivity problem is 42%, that means less than 50%.
- Hence we reject null hypothesis.
- So, we do not have sufficient evidence to support our claim that students face internet connectivity problem is agreed.

3)  $H_0$ : Students face back problem is agreed.

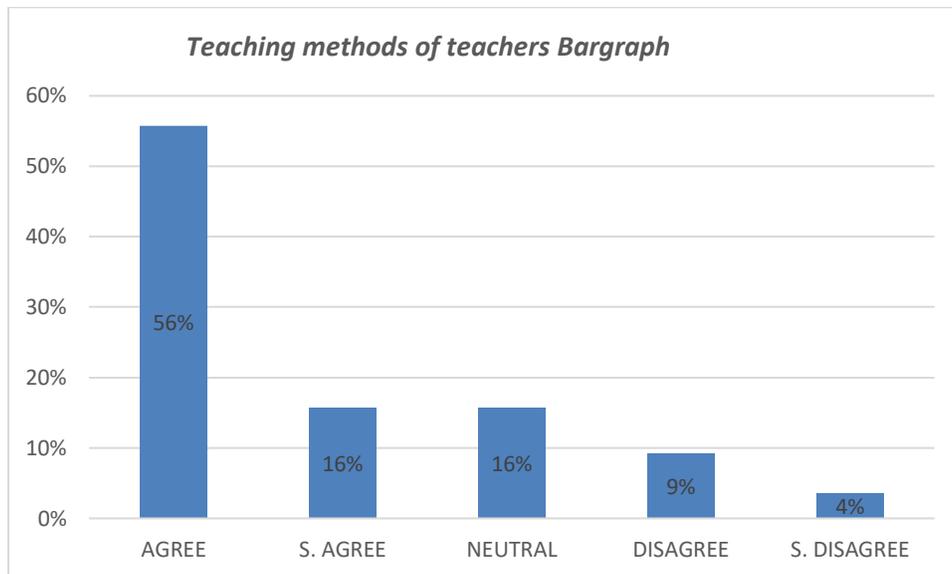
$H_1$ : Students do not face back problem is agreed.



- From the above graph we can see that the proportion of students who are agreed by the statement that they face back problem is 39%, that means less than 50%.
- Hence we reject null hypothesis.
- So, we do not have sufficient evidence to support our claim that students face back problem is agreed.

4)  $H_0$ : Proportion of students who agreed that they were helped by teaching methods of teachers is 56%

$H_1$ : Proportion of students who agreed that they were helped by teaching methods of teachers is not 56%



- From the above graph we can see that the proportion of students who agreed that they were helped by teaching methods of teachers is 56%.
- Hence we don't reject null hypothesis.
- So, we have sufficient evidence to support our claim that students who agreed that they were helped by teaching methods of teachers is 56%.

# **Chapter 5. Conclusion,** **Suggestions and** **Recommendation**

Education is the need of the hour. Education develops man. Man's learning is necessary for the progress of himself as well as the country. It all started when the person was in school. The methods of teaching and learning are changing day by day. And it is in our best interests to accept all these changes. Our technology has evolved. So now it is easy to get online education.

With the help of obtain results from the previous chapter "data analysis" the current chapter is being carried out as a summary of results which formed the basis of this project. Results of the analysis are supported by appropriate literatures to explain the summarised findings.

I had a lot of objectives in front of me when I started this project. But I decided to study six of them. And based on these six objectives, I have drawn the following conclusion.

The aim of the study is to identify the factors affecting students' satisfaction, efficiency and performance regarding online classes during the pandemic period of COVID-19. The study is quantitative in nature, and the data were collected from 140 respondents through online survey who were studying in school.

### **Objective 1**

**To know whether the efficiency of students is affected by online education or not.**

Ever since the Corona epidemic began, students' social ties have waned. The movement of students in the society has almost stopped. When offline school started, students would meet together at the school and exchange new ideas. Now they have to go to school from home so that they cannot

physically meet their friends. Even if they chat online, it doesn't do much good. When they were in school, they had to stay together for at least six hours straight. But while chatting online, they soon get bored. Because there is not much exchange of thoughts, there is no point in talking.

Even adopting the new online learning method initially faced many difficulties. There was no time planning. There was nothing I could do on my own. Parents had to be called every time or teachers had to be called for help. They had nothing left to do on their own. So even though the students were not interested in this teaching method at first, they tried to adopt it.

Constantly sitting at home has nothing to do with society. No playing with friends. This also made the students very bored. Education is not only imparted in school but also in the community. There is so much to learn from the little things. But for that you have to get out of the house and that was not possible during this time. Book knowledge alone is not useful. We learn a lot from observing new things as we interact in society. School is not just about learning but also about making new friends and understanding the meaning of life. No one likes school in the beginning, but as we get to know each other, we go there.

It was not possible in the beginning to study sitting in front of the screen for a long time and it is not possible even today. It has nothing to do with the black board at school but it has a lot to do with the white board on the online screen. The student is struggling to get an education even if they does not want to. Is it possible to sit in front of the screen for a long time? When asked, 31% of students answered that it was not possible.

Since the beginning of online learning, students have not been associated with the school but students are learning online. But there is a big difference between studying at home and studying at school. There are a

lot of distractions when you are at home, like watching TV, playing games on mobile and much more. In school, the student learns with concentration. Which would be beneficial for them during their exams.

When teachers are teaching in the school, they are giving different examples to the students to boost their morale. The teacher also understands his mental state when the student is in front and they advise him accordingly. In the online system, the student is on the second screen which makes it difficult for the teachers to understand the mental state of the students. Even a teacher can do nothing at such times. In this case, parents need to pay attention to their children and increase their patience. So that the mental state of the students also improves.

### **Objective 2**

**To study whether the students are focused on studies or they able to use technology.**

Current students show less physical ability and do not develop holistically. This means that their mental and physical development is not complete, which leads to various diseases at an early age. Meditation enhances students' concentration. Students do not appear to have personal planning. There were certain times in school when the student's planning was fixed. Students plan ahead for the full day. Which does not cause much difficulty to the students. But that's not the case now, since the introduction of online learning methods, many students have been thinking too much about even the smallest things. So that they cannot concentrate even on an individual subject.

When students must spend a lot of time online to do their schoolwork, they may be easily distracted by other things online. Everyone has fallen into a rabbit hole online, looking at more and more pages to answer questions and learn more about something. This can be one of the biggest distractions. A student may keep several windows open so that he can check email and chat with friends while the class may be in session. It takes work and discipline to focus solely on schoolwork. In a classroom, a teacher is there to help refocus a student who gets distracted. At home, this often doesn't happen. It may be necessary for parents to redirect a student back to schoolwork when this happens. After some time, that focus can become a habit and distractions can become less appealing to the student.

Many students are now attending online school for the first time. This a big change that they have to quickly adapt to. There's no way to shorten the time that this takes – students simply have to do their school work each day and get used to not having a teacher around. It's always helpful if there is a parent or other caregiver at home to help them when they have technical problems or are having a hard time adjusting to the circumstances.

If a student has a bad experience in the initial educational journey, then he has no interest in later education. If at first he finds difficulties in education, he does not stay focused for later. Then he finds out the reasons for not studying. Which is not at all conducive to his future. It is the complaint of every parent or teacher that the student is not studying. But you should also try to find out why the student is doing this. Not only in online school but also in offline school, students need to know about the difficulties they face. And then they have to show the way.

### **Objective 3**

#### **To know about health condition affected due to online education or not.**

Corona pandemic has affected every aspect of human life including children. Whether it's the mental health, physical health or a combination of both – the children have had their own share of health problems during this pandemic phase.

Eye irritation, eye pain, and constant headaches are all caused by constant online screening. Anxiety and depression are very common among today's students. Being at home, their sleep times are not fixed. This may be the reason why this is happening. Children attending online classes at home are not bound to have classroom professionalism. Hence, their physical health is deteriorating too in many aspects.

Obesity in children is on the rise either due to lack of outdoor physical activities or due to binge eating and easy availability of junk food at home. Children are losing their muscle mass and adding fat which is going to affect their growth.

All this has reduced the immunity power of the students. This shows that they are infected with various diseases. New generation, new diseases are going on right now. Different types of diseases are currently known. But in all of this, only parents can decide how to keep their children safe. If students get bored, parents also give them their mobiles easily. Students are already in school for five to six hours. And then using more screens would be dangerous for them. As a result, the diseases that afflict old age are now beginning to affect students.

#### **Objective 4**

**To know about financial crisis faced by parents due to increased charges of online curricular.**

In the current Corona epidemic, people's home conditions are very bad. If there were a lot of people living in the house, it would be difficult for a lowly person to support them. Whether the family is small or large, how many people live in it is more important. Everyone is going through an abrupt change, and this is bound to produce anxiety in everyone. The idea of virtual learning is new and possibly intimidating for many parents. Many families may additionally be undergoing financial stress, employment flux, or pressures of home-working as a result of the pandemic. The fact of the matter is that every parent wants their child to do well in school, even in the face of mitigating circumstances.

Everyone is getting used to the virtual learning interface that their child's school has provided, and many parents are likely to run into issues. But if you are running into issues, then many other parents probably are too. Consider creating a WhatsApp group or other line of communication with other parents to share problems and fixes. We need to help each other as much as we can.

As a result, these parents were more likely to experience depression, have trouble sleeping, or to have little interest or pleasure in doing things. Mental distress were felt by parents across all socioeconomic categories, regardless of family income or the number of days that had passed since school closure.

## **Objective 5**

**To learn about whether educational problems of students are solved or not.**

Students find it difficult to adapt to an online learning environment immediately after traditional classroom learning. Due to the sudden change, they are not able to adapt to the online learning. Students who have been always studying in the traditional classroom mindset are not able to focus on online platforms. It is important for them to accept the new learning environment with an open mind.

Many students are not well equipped with a high internet connection that is required for online learning. Due to this, they face problems in going live for virtual learning and other platforms that require internet connection. They face technical issues as they are not much aware of technology and computer applications. A slow and high internet connection can play an important role in how quickly you can attend the class and do not miss any live sessions. There is a possibility of poor connectivity if you find difficulty in downloading some information related to the subject.

Students lack effective communication skills during online learning. Teachers give assignments for improving reading and writing skills but there is a possibility that they might not be able to write so convincingly that educators understand the concept behind their assignments. There are some students who feel shy to communicate with their teachers and friends due to the new model of learning. It might happen due to lack of interest, poor technological skills with apps and video calls or unable to express themselves via live chats, emails or text messages.

## **Objective 6**

### **To know whether students were able to manage studies and other**

One of the most valuable skills you can have as an online student is effective time management. The better you manage your time, the easier it is to achieve your goals. Everyone has the same 24 hours in a day, meaning, it's not about how much time you have, but how well you can manage it. A lack of a schedule can lead to poor time management in online learning. When students are enrolled in face-to-face classes, the instructor sets a predetermined schedule. Students need to find a way to balance the flexibility of online learning with a disciplined schedule to be successful online learners.

Many students feel it is difficult to express their talents in school. Exams and group assignments do not always capture students' unique skills or accurately measure the ability to apply skills to real-world problems. By participating in a competition can help to achieve educational and professional goals.

Online education is a means of education that incorporates self-motivation, communication, efficiency and technology. Distance between the student and the instructor is eliminated. Online education is efficient as it eliminates distance by properly equipped laptop and other means of internet accessible technology.

From the above discussion, I conclude that online education is an innovative technique or a form of information and communication technology used in providing learning experience to the students online through the use of internet services. Technology has a very positive impact on education and at the same time may also pose negative effects. Teachers and students should take advantage of this in the good light and eliminate the drawbacks which are pulling back many of students as well as schools from achieving excellence.

Above all, although E-learning has huge influence on promoting study, it is still not a perfect educational means there are still a lot of intractable problems. It does not matter E- learning import advanced technology, it cannot substitute face-to-face communication between teacher and students and students and practical activity, mention less education of thousand- year of human' history.

There are both pros and cons of online education. Online learning should be seen as a complement and extension of classical forms of learning. Not even the best online course can fully replace the personal contact with the teacher, are the human relationships that develop in a group. All in all, traditional classes should not be replaced with online classes.

## Suggestions

The truth is, for many students, online learning is only a formality and not a real substitute for regular teaching. Some teachers only share material to students without teaching it. Online testing is sometimes based on the principle of “work it out yourself”. Students are not acquiring real, long-lasting knowledge. And some students don’t have the opportunity to leave their home during the two hours allowed during the curfew because they have to sit in online classes. Some students don’t even have proper equipment to attend online classes. They don’t have electronic devices such as computers, laptops and mobiles. The number of these devices in households is often limited which can be very inconvenient for online appointments, classes, and meetings that take place simultaneously. Also, some teachers don’t consider the fact that during online testing, the student may lose the internet connection. Unfortunately, if this happens, the student gets graded based on the number of questions answered and recorded in the system before the connection was lost. Students also face problems managing their own time as a result of online teaching.

### **1. For technical issues**

You just need to find a high-speed internet connection at your home. And know where you can get technical support for your connection and other technical issues related to software and tools for effective learning.

## **2. For computer knowledge**

You should be provided access to support devices that can help you to solve technical problems via call, email or live chat. You should pay attention to your instructor during the process of solving the issues.

## **3. For time management**

Time management is the most important factor in online learning. It needs time and effort for better learning outcomes. You should know the factors that can affect your timings during the learning process such as avoid distractions, make to-do list and avoid multitasking.

## **4. For distraction**

You should inform your parents and friends about the time of online learning so that there will be no distractions from their side. Restrict the study area for others to come during live sessions and video calls. Make sure you relax in the breaks set in the time table. In this way, you will concentrate on learning and spend quality time with your friends and family.

## **Suggestions from students**

1. I was not excited to learn from online education. In online lecture video quality is poor, because of poor internet connection I was not able to attend all classes. That's why offline classes are best than online classes.
2. या काळात आपण काहीही नाही करू शकत ना शिक्षकांना जबाबदार ठरू शकत ना विद्यार्थ्यांना .

3. There is no need to improve the quality of online education.
4. It is not so easy to understand. Difficulties were not solved properly. Even physical activities, sports are also important for students.
5. Online classes are helpful for us but we can't depend on it totally. It's just supporting. Face to face education is necessary for each student.
6. The suggestions is that the online class should be 3 hours.
7. We were paid school fees but didn't get enough knowledge.
8. Since education can only be imparted effectively in offline mode therefore any further step taken in favour to improve online education will deteriorate the emotional stability of children.
9. Now a days because of corona crises online education is best way for students safety. So please continue till normal atmosphere.

## Recommendation

1. Motivate students.
2. Build connection with student then they will share their problems.
3. Help students to maintain focus.
4. Tell them inspirational stories and give them real life examples.
5. Identify and support struggling students.
6. There is no one perfect in the world. So be perfect and give your best.

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# Annexure

### **Map of area of study:**

I took survey from Chalisgaon region. Not only Chalisgaon but also near villages. Private and Government school students were able to filled the survey.

### **Questionnaire:**

Question is required for the survey and it should be in simple and easy wording. While creating question try people will understand your question and there should be no difficulties in knowing those questions. I was able to understand about the facts and problems that students were facing due to the online education. This survey helped me in my project.

## Synopsis

Online learning is education that takes place over the internet. In this pandemic situation students started learning at online platform. Many educational systems changed in the pandemic situation and some things affected student education life. Students were studying on blackboards in the school but now they are used to white boards on the white screen. Is often referred to as –“e-learning” among other terms. However, online learning is just one type of ‘distance learning’. In this project I wanted to study some pros and cons of the online education system during lockdown.

### Objectives :

- 1) To know whether the efficiency of students is affected by online education or not. ( Question 1 to 8 )
- 2) To study whether the students are focused on studies or they able to use technology. ( Q 9 to 19 )
- 3) To know about health condition affected due to online education or not. ( Q 20 to 23 )
- 4) To know about financial crisis faced by parents due to increased charges of online curricular. ( Q 24 to 27 )
- 5) To learn about whether educational problems of students are solved or not. ( Q 28 to 36 )
- 6) To know whether students were able to manage studies and other curricular activities. ( Q 37 to 43 )

**Survey questions :**

1. What is your name
2. What is your age
3. Your or parents email id
4. In which standard you are studying
5. Residential location = City Village
6. How many members are there in your family
7. How many earning members are in your family
8. Which device you use to attend classes = mobile computer laptop other
9. Which online platform do you use to attend online classes = Google meet You tube Zoom

<u>Questions</u>	<u>Agree</u>	<u>Strongly Agree</u>	<u>Neutral</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Are you missing offline classes					
2. Are you liking online classes					
3. Are you missing your friends					
4. Is this possible for you to seat in front of screen for long period of time					
5. Learning is the same in class and at home on the internet					

6. Learning on the internet is more motivating than a regular class					
7. Is it possible to manage the daily routine					
8. Do you think the online class teaching will be helpful for the growth in your career					
9. Is this possible for you to focus on online classes					
10. Did you face internet connectivity problems					
11. Are you able to access the internet as needed for your studies					
12. Are you comfortable communicating electronically					
13. Are you comfortable with written communications during online classes					
14. Are you excited for attending the online classes					
15. Are you able to solve every query during online session					
16. Are you eager about online classes					
17. Had you before joined the online classes					
18. Have you become used to online classes					
19. Are your online lectures been recorded by teachers					

20. Due to online education are you facing eye sight problem					
21. Do you any problems related to fatigue during online classes					
22. Are you facing difficulties related to your health during online classes					
23. Do you face back problems during online classes					
24. Is your school charging extra fees for online classes					
25. Isn't it costly to use internet connection nowadays					
26. Did you purchase any electronic device to attend lecture					
27. Did you purchase any software or application provided by school					
28. Are you understanding online teaching					
29. Are you satisfied with online classes					
30. The online class material were useful & accurate					
31. Did your study problems were solved by your teachers					
32. Does your syllabus get completed before the exam					
33. The teachers methods helped in understanding the topic better					

34. Do you recommend educational institution to continue with online classes after the corona virus					
35. The teaching environment at the class helped in better learning					
36. Is your teacher is very good at communication					
37. Are you able to manage your study time effectively and easily complete homework on time					
38. Have you performed any competition during online studies					
39. As a student, you enjoy working independently					
40. Are you able to communicate online in class					
41. Does your online classes also includes short break					
42. You feel that face-to-face contact with your teacher is necessary to learn					
43. Were online exams useful					