

**A Study of Online Learning initiated in Demonstration  
Multipurpose School Bhopal during COVID 19- Pandemic**

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**SUPERVISOR**

**Dr.Sanjay Kumar Pandagale**  
Associate Professor in Education

**INVESTIGATOR**

**Priya Kumari Tamsoy**  
Three years Integrated B.Ed-M.Ed



**Regional Institute of Education, Bhopal**

(National Council of Educational Research and Training)

Shymala Hills, Bhopal – 462013, Madhya Pradesh

(NAAC Accredited A+ Grade Institute)

## **DECLARATION**

*I hereby declare that the dissertation entitled "A study of Learning initiated in Demonstration Multipurpose School Bhopal during COVID-19 pandemic" has been carried out by me during the academic year 2018-2021 in the partial fulfillment of the requirement for the degree of Integrated B.Ed – M.Ed of Barkatullah University Bhopal (M.P.)*

*This study has been conducting under the guidance and supervision of Prof. Sanjay Kumar Pandagale, Regional Institute of Education (R.I.E.) Bhopal (M.P.).*

*I also declare that the Research work done by me is original and natural. This dissertation has not been submitted before other by me or by other for the award of any degree or diploma in any university.*

*Place-Bhopal*

*Date- 22-07-2021*

*Priya Kumari Tamsay*

*Priya Kumari Tamsay*

*Three years*

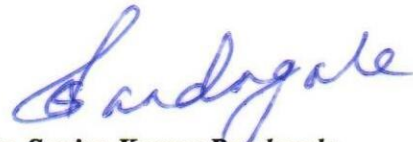
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## **CERTIFICATE**

*This is to certify that Ms. Priya Kumari Tamsay student of Integrated B.Ed-M.Ed course in the year 2020-2021 of Regional Institute of Education (R.I.E.) Bhopal M.P. has worked under my guidance and supervision for her dissertation "**A study of Learning initiated in Demonstration Multipurpose School Bhopal during COVID-19 pandemic**" I further certify that this work is original and worthy of presentation in fulfilment of the requirement of degree of Master of Education of Barkatullah University, Bhopal.*

*This is to certify that Ms. Priya Kumari Tamsay student of Integrated B.Ed-M.Ed course in the year 2020-2021 of Regional Institute of Education (R.I.E.) Bhopal M.P. has worked under my guidance and supervision for her dissertation "**A study of Learning initiated in Demonstration Multipurpose School Bhopal during COVID-19 pandemic**" I further certify that this work is original and worthy of presentation in fulfilment of the requirement of degree of Master of Education of Barkatullah University, Bhopal.*

**Place:** RIE, Bhopal



**Dr. Sanjay Kumar Pandagale**

**Date:** 22.07.2021

Associate. Professor in Education



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Priya kumari tamsoy

Date-



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**CHAPTER -I**  
**INTRODUCTION**



# CHAPTER I

## INTRODUCTION

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### 1.1 Introduction

The coronavirus pandemic has generated changes in the teaching-learning process in educational institutions and has influenced the interaction between teachers and students. As a consequence of the pandemic, schools' organization was constrained to carrying out their activity with students exclusively online. In this regard, many governments took measures in order to avoid spreading the virus and to ensure the continuity of the educational process and schools worldwide adopted online learning. While in general, internet-based learning is considered an option, an alternative to traditional learning, during the Coronavirus pandemic it became an essential element for maintaining the activity of schools and universities. This paradigm shift could generate changes in students' perception of this way of teaching and their perception might be different from the one found in studies previous to the pandemic. However, once victimised E-learning platforms there also are some components that may be thought of as obstacles in students' method of learning, like attenuated motivation in students, delayed feedback or facilitate thanks to the very fact that academics don't seem to be perpetually out there at the time students may have facilitate whereas learning or feelings of isolation thanks to lack of physical presence of classmates. None the less these obstacles are overcome with the assistance of academics who ought to adapt their teaching methods to the requirements of scholars. So as to try to therefore, expertise and information regarding teaching within the online surroundings are unit necessary. Thus, we have a tendency to believe that these challenges and drawbacks may be a lot of distinguished whereas the E-learning platform offer many advantages to learners such as control over the content, control over the time spent learning and thus the process can be adapted according to the learner needs and objectives of learning.

This might contribute to better communication with the students and spite of some inherent challenges brought by this time of crisis, E-learning might enhance to learning process for students.

Thus, through this paper, we have a tendency to try to capture the existence of such changes. Previous studies show that E-learning offers several edges for college students as a result of this kind of learning involves student-centeredness, it's a lot of versatile and it also can improve interaction with students by providing asynchronous and synchronous tools like e-mail, forums, chats, video conferences. what is more, web technologies expedited the distribution of content at constant time to an outsized range of users, E-learning platforms supply several blessings to learners like management over the content, management over the time spent learning and so the method are often custom-made in step with the learner wants and objectives of learning. This would possibly contribute to raise communication with the scholars and in spite of some inherent challenges brought by now of crisis, E-learning would possibly enhance the educational method for college students educational method takes place completely on-line. This would possibly happen thanks to the shortage of academics expertise in exploitation E-learning and thanks to the short time within which that they had to adapt their teaching vogue to the new conditions. Relevant during this method are the results of a study conducted by faculty Education entree Ate starting of the pandemic that showed that sixty six.9% of respondents thoroughbred that they used on-line platforms for teaching for the primary time. Thus, it is inferred that students and academics weren't prepared for a wholly on-line expertise.

The whole instructional system from elementary to college level has been folded throughout the imprisonment amount of the novel coronavirus malady 2019 (COVID- 19) not solely in Republic of India bust across the world. The COVID – nineteen may be an extremely communicable disease or illness caused by severe acute metastasis syndrome corona virus , originated in metropolis town of China, has already taken on pandemic proportions, moving across all the continents, principally unfold among people throughout shut contact currently leading to several death.



COVID -19 is referred as pandemic thanks to its severity and wildness conjointly because the greatest international health crisis since when centuries in human civilization. The onset of the novel coronavirus created everything type world economies to social rituals ravaged. In fact, imprisonment may be a state of the emergency protocol enforced by the competent authorities ( during this case it's central and state Government) to limit folks from departure their place of living leading to mass quarantines and occupy home across the planet since March 2020. The coronavirus triggered the primary section nationwide imprisonment in Republic of India that began on March 25, 2020 for twenty one days and afterward perennial on April fifteen, 2020 for nineteen days because the second phase; on could four, 2020 for fourteen days because the third phase; on could eighteen, 2020 for fourteen days because the fourth section and on June one, 2020 just for containment zones taking sixteen days. To urge management over COVID-19 pandemic is feasible to bigger extent with people's unrestrained determination of the rigorous precaution measures like maintaining social distancing, following medically tutored quarantine method and embarrassing hygiene and sanitation. Therefore, this is often the time to gravely rethink and plan out education system in a lot of exacting would like of new current scenario. Informal and non-formal education is additionally hugely affected. However, it's a well-established assumption that no education approach will replace the height position of formal education thanks to having teacher- tutored direct interaction. But, the aftermath of COVID-19 crisis, on-line teaching became an education shift from ancient technique to the trendy approach of on-line teaching from schoolroom to zoom, from personal to virtual and from seminars to webinars. Previously, e-learning, distance education and correspondence courses were popularly thought of because the half on non-formal education, however as of currently, it looks that it'd bit by bit replace the formal education system if the circumstances enduringly persist over the time. There are some difficulties felt within the implementation of the modification method within the education system that has been arisen when COVID-19 crisis, these difficulties are connected with the novel perspective of on-line teaching and their



technological complexities, But several study are conducted over on-line teaching and learning and its effectiveness, no such studies conducted throughout COVID-19 imprisonment amount. Thence during this study of on-line teaching issues and problems can studies in Demonstration utile faculty Students.

Therefore faculty establishment members and students came upon several challenges. The Organization for Economic Co-operation associate degreed Development mentioned that a number of the challenges colleges got to face were keeping an equilibrium between on-line courses, that would have an effect on student's health, the disbursement several hours before of a screen and non-digital activities, analysing and that specialize in student's emotional health- providing them with support throughout the method of learning, taking under consideration the actual fact that not all students have access to the net and managing and observation their access to devices so as to effectively collaborate with them. what is more colleges and different education establishments are struggle with keeping the content of the course consistent and relevant, with human action clearly with the educational community and conjointly with exploit and recruiting students. On the opposite hand, students conjointly had to face challenges and a study that specialize in student's perspective on E-learning known that among the most challenges that students encountered were accessibility, property, lack of acceptable devices, social problems diagrammatical by the dearth of communication and interaction with lecturers and peers.

Taking under consideration the aspects mentioned higher than we have a tendency to believe that the transition to exclusive E-learning will extremely have an effect on the tutorial method and student's perception concerning the employment of the net atmosphere within the method of teaching and learning and these concepts stand at the idea of our analysis. we have a tendency to thought-about it vital, relevant and necessary to analyse whether or not students have custom-made to E-learning and whether or not they are happy instead of discontent with this exclusive on-line learning expertise.

The aim of the paper is to spot the student's perspective on the E-learning expertise throughout the Coronavirus pandemic so as to enhance and strengthen the E-learning system. In different words, our study examines the approach the method of learning was affected throughout now of crisis and investigates the student's read on the employment of E-learning platform and the way these technologies influenced their understanding and assimilation of knowledge. Moreover, we tend to were conjointly interested context they might like these platforms to be any employed by faculties.

Thus, my analysis will contribute to the event of the E-leaning method, for it provides info of the quality of bound strategies utilized in order to deliver the courses, the time spent on finishing tasks and comes, the content of the course and conjointly student's grievances recommendations and preferences for teaching techniques.

## **1.2 Technical Education in India**

Technical Education plays an important role in human resource development of the country by making skilled personnel, enhancing industrial productivity and up the standard of lifetime of its folks. Government of Bharat has established special technical Education sector beneath the Department of upper education that oversees Central and authorities funded Institutes of upper learning targeted on sciences, Engineering, Technology, Management, Applied arts and Crafts and job Technology. There's a growing demand within the international setting to make a virtual learning setting within which all aspects of a course square measure handled through an identical computer programme. A number of these learning programmes square measure initiated in Bharat and learners got to attend orientation sessions at school and faculties wherever the course content is delivered online.

Already on-line teaching learning programs square measure running by the government so throughout coronavirus pandemic whole establishment square measure closed at that state of affairs central government take



action to supply on-line teaching categories to the learners. For that learner's square measure still obtaining on-line categories.

### **1.3 Online Education in India**

The traditional learning system had been utilized in Bharat and has been property for long. However the academic wants square measure quickly dynamic and a world education customary is imposing itself and conjointly forcing the Indian education system to endure many changes. Bharat has become the hub of knowledge Technology (IT) and IT enabled services business. on-line learning holds specific connection to Bharat because the youth represent its major population and there's no alternative thanks to take education in such a scale while not the intervention and there's no alternative thanks to take education in such a scale while not the intervention of technology. The construct of e-learning is unquestionably gaining quality in Bharat however as a slow pace as compared to alternative countries. E-learning has the potential to beat the inadequacy of qualified academics in rural Bharat (Yuen, 2010). Live on-line tutoring, live streaming videos and virtual school rooms square measure a number of the net learning solutions for such issues. E-learning is looked upon as a best substitute for effective and arranged room teaching. Computerised Assessment of learners, educational performance becomes easier to the teacher particularly for the courses wherever the entering is giant. E-learning is increasing the proportion of literate population within the total population of Bharat.

### **1.4 Promising way forward for on-line Education in India**

ICT as a tool in education is obtainable to US at this juncture and that we would like to totally utilize it to boost the present entering rate in Education. It's an important chance for all academics and consultants within the country to pool their collective knowledge for the good thing about each Indian learner and thereby reducing the digital divide. Though disjointed efforts are occurring during this space by varied institutions/ organizations and isolated success stories also are on the market, a holistic approach is that the want of the hour. It's obvious that stress on ICT could



be a crying want because it acts as a number for capability building efforts of instructional establishments while not compromising the standard.

India's online students understand convenience, flexibility with Commencement dates, as key engaging aspects of on-line learning. They indicate quality after all content because the high reason for selecting a selected course and appear to like laptops over mobile for accessing the course material type of study materials square measure alternative key psychological feature factors to adopt on-line channel. Because of coronavirus pandemic each instructional organization square measure mistreatment on-line teaching and learning mods to complete the student's course of study on time. The subject that opt for analysis that's to gather on-line learning expertise by student's perspective.

### **1.5 Aim of the Study**

The aim of the paper is to spot the student's perspective on the E-learning expertise throughout the Coronavirus pandemic so as to enhance and strengthen the E-learning system. In alternative words, our study examines the means the method of learning was affected throughout now of crisis and investigates the student's read on the employment of E-learning platforms and the way these technologies influenced their understanding and assimilation of knowledge. Moreover, we tend to were conjointly inquisitive about characteristic the person difficulties that students encountered whereas learning on-line and within which context they might like these platforms to be any employed by universities.

Thus, analysis will contribute to the event of the E-learning method for it provides info on the quality of bound strategies utilized in order to deliver the courses the time spent on finishing tasks and comes the content of the course and conjointly student's preferences for teaching techniques.

### **1.6 Open Education Resource**

UGC has conjointly launched its Digital Library syndicate to supply access to see reviewed journals and listing databases.

### **1.6.1 Mobility**

Adoption of the BlackBerry, iPhone and different good devices that have net access permits students and college to perform a large vary of assignments. Tasks like Administration, sharing category notes, downloading lectures, instant electronic communication, etc., square measure potential anyplace mobile phone service is accessible.

### **1.6.2 Gamification**

Gamification in on-line learning is that the use of theory of games and game mechanics in nongame contexts to interact and encourage users to perform higher.

### **1.6.3 Social Learning**

The emergence of internet two.0 and social networking like blogs and wikis, furthermore as new on-line video repository and delivery websites like YouTube, iTunes U and massive suppose is influencing a brand new trend in pedagogy.

### **1.6.4 Video Contents**

Learners report higher satisfaction towards video primarily based content. About to concerning five hundredth of the net learners indicate preference for video contents.

### **1.6.5 Tutor Marketplace**

Online platforms alter students to satisfy tutors in relevant discipline in on-line and offline modes. This trend is gaining enlarged acceptance particularly from tier two and tier three cities.

## **1.7 Various on-line learning and assessment ways**

### **1.7.1 Blended Learning**

Blended learning is associate education program (formal or non-formal) that mixes on-line digital media with ancient room ways. It needs the physical presence of each teacher and student, with some part of student

management over time, place, path, or pace. Where as students still attend categories in physical field, face-to-face room practices square measure combined with computer-mediated activities concerning content and delivery.

### **1.7.2 Online learning**

The terms 'e-learning' and 'online learning' square measure used interchangeably by several authors. On-line education is outlined as associate approach to learning that uses net, network, or standalone electronic devices to speak, collaborate in academic context. Internet is revolutionizing info transmission and provides higher forums for exchange. Several universities square measure channelling efforts into advanced conference, video conferencing to expand their on-line engagement. Self-paced learning, ability to hide distance, robust government initiatives push the code enrolments for e-learning dynamical the market enlargement.

### **1.7.3 Digital Libraries**

Digital libraries square measure repository of domestically made tutorial outputs and conjointly act as purpose of access to different on-line sources. **Several** tutorial establishments square measure a lot of actively concerned in building repositories of the institution's books, papers, thesis, journals and different paper works which may be digitized. a number of the common factors that square measure influencing to alter to digital mode square measure info explosion, storage issues, looking drawback in ancient libraries, environmental factors (Save trees!!) and new generation wants.

### **1.7.4 E-books**

E-book in easy terms is electronic version of a written book in paper format. E-books square measure rising because the format of future in lecturers. Growth generally use of pill computers is coupled up with growth in quality of E-books. Sharon Kerr, head of Macquarie university



accessibility services, says E-books deliver increased learning expertise for learners due to the transmission concerned.

### **1.7.5 Video Assignments**

While teaching learning in on-line platform some task conjointly provided via video assignment. There students can collect all subjective knowledge through video in keeping with given instruction in order that assortment of content and learning conjointly fulfil by assignments.

## **1.8 Informal learning ways in which**

Social media tools like Wikis, blogs, YouTube square measure wide accepted as skilled networking tools and square measure looked upon as learning tools.

### **1.8.1 Online Tests**

Online tests and quizzes square measure used for grading and to reinforce learning expertise. This has gained momentum attributable to faster response that keeps students driven and additionally enhances their participation in learning. Several certification exams square measure out there on-line offered through laptop primarily based testing centres.

### **1.8.2 Online learning strategies**

Course modules, Video assignments, Digital libraries: E-books, e-libraries etc. on-line strategies to assess and assess student progress, course material, feedback on the right track material, on-line tests.

## **1.9 Rationale for choosing the subject**

The decision to specialize in this space was taken on the grounds listed below:

The augmented availableness of assorted on-line learning strategies and their fast adoption has created a void within the teaching. it's been a tutorial an instructional} interest to seek out the excellent list of on-line learning strategies offered by educational establishments and their

effectiveness to the learners UN agency square measure the first finish users or shoppers of on-line learning.

Given the dearth of conclusive analysis regarding the effectiveness of on-line education in thought with all aspects in fact, design, technology, neutral (Learner) characteristics, environmental characteristics this study might offer higher insights to the education suppliers, learners, instructors and different relevant stakeholders.

There square measure many qualitative studies conducted as a shot to see the effectiveness of on-line learning and assessment strategies. However, there has been very little analysis to check the learners' perception on ICT integration, impact of technology dimensions (ICT support, ICT skills and ICT Infrastructure) of on-line learning of learners.

#### **1.10 Online learning capabilities – Digitization of study material/E-content Generation**

The learning material for college students is digitized. Instructors add pictures, animated videos, videos and lectures by eminent industrialists and academicians on every topic, web links, multiple alternative queries, quizzes and games to the e-notes. These e-notes square measure uploaded within the academy's networking web site even before a selected topic is instructed in order that students will be ready for interactive lecture sessions. Students are concerned in making and planning e-books victimization Ipad. Lecture capture is associate degree umbrella term describing any technology that enables instructors to record what happens in their lecture rooms and create it out there digitally. A number of these establishments square measure equipped with a Lecture Capturing System wherever lectures square measure recorded. These video lectures square measure created out there to students for reference just in case of absence or as a neighbourhood of revision.

### **1.10.1 E-books**

Students have fast and simple access to many books on their desktop computers, notebooks or e-Book readers. These e-books embody several purported international publications.

### **1.10.2 E-library**

A brief summary for all e-books is created out there for college students to flick thru the essence of every book before launching into an in depth study. NPTEL Video categories (e-resources on website) are uploaded on the establishments networking web site for the advantage of students. These have a good and made assortment of academic DVDs additionally.

## **1.11 Definition of key terms / Operational definition**

### **1.11.1 Online learning**

ICT primarily based learning is referred in varied terms like on-line education, e-learning, distance education or distance learning. Technology primarily based learning that makes use of web and different technologies to supply, maintain and upgrade learning material and teach learners is noted as e-learning (Fry,2001). As per Abbad et al (2009), on-line learning refers to any learning that's enabled electronically. Algahtani (2011) divided e-learning into 2 basic sorts, consisting of computer-based and therefore the web primarily based e-learning. During this study, on-line learning is outlined because the style of learning expedited by ICT and on-line capabilities is that the comprehensive list of all e-service offerings by academic establishments like e-library, e-books, e- learning, etc.

### **1.11.2 Information communication Technology**

ICT stands for data and Communication Technologies. ICT is Associate in nursing umbrella term that embraces all technologies for the communication of data. It includes any medium to record data and every one technologies for broadcasting data. ICT in Education means that teaching and learning with ICT.



### **1.11.3 School**

A School is an academic establishment designed to supply learning areas and learning environments for the teaching of scholars below the direction of academics.

### **1.11.4 Online Teaching**

Online teaching is that the method of training others via the web.

### **1.11.5 COVID-19 Pandemic**

The COVID – nineteen could be an extremely communicable disease or ill health caused by severe acute metabolism syndrome corona virus , originated in city town of China, has already taken on pandemic proportions, poignant across all the continents, principally unfold among people throughout shut contact currently leading to lots of death.

## **1.12 Need and Justification / significance of the study**

In today's issues teaching is students centred on minimize the gap between students and also the teacher adopting completely different ways of teaching. Thanks to COVID-19 all instructional institute square measure closed there for on-line teaching programs running by the varsity management. On-line programs square measure fulfilling the gap between students and teacher. It'll conjointly facilitate to grasp regarding the effectiveness of on-line teaching with the mixing of ICT in achieving students learning competencies and capabilities. Throughout COVID – nineteen pandemic all instructional institutes were closed thus there only method for learning that's on-line teaching method.

## **1.13 Statement of the matter of study**

'A study of on-line learning initiated in Demonstration utile faculty Bhopal throughout COVID-19 Pandemic'.

#### **1.14 Objective of the Study**

- To study the positive facet of on-line Learning throughout COVID -19 pandemic.
- To study the difficulties face by students thanks to the introduction of on-line learning throughout pandemic.

#### **1.15 Delimitation**

Study are conducted solely during a restricted sample. The study are conducted in one School DMS in Bhopal.

The study is the following limitations -

- The study was confined only one Demonstration Multipurpose School in Bhopal.
- The study was conducted classes of 9<sup>th</sup> and 10<sup>th</sup> students.
- The Questionnaire was prepare only 20 questions related to objectives.
- The Survey details collected by Google forms so that not able to interacted with students.

**CHAPTER-II**  
**REVIEW OF RELATED**  
**LITRATURE**



## CHAPTER II

# REVIEW OF RELATED LITERATURE

---

### 2.1 INTRODUCTION

The phrase review of literature consist of two words, Review and Literature. The term “review” means to view carefully repeatedly and literature means the knowledge, information related to that field.

The Review of the literature in educational Research provides us with the means of getting the information in our particular field of knowledge. New researcher learnt what are the studies already undertake and what remains still to be studied, he/she cannot develop a research project that will contribute to further knowledge in our field. Thus, the Literature in any field forms the foundation upon which all the future work must be built. If we fail to build this foundation of knowledge provided by the review of the literature, our work is likely to be shallow and nave. Although the importance of a thorough review of literature is obvious to everyone, because the insight and knowledge gained by the review inevitably lead to a better designed project and greatly improve the chances of obtaining important and sufficient result.

The review of related literature is a key step in the research process. According to Wood and Haber (1995) literature review is an extensive, systematic and critical method reviewing the most important published scholarly literature on a particular topic. The major purpose of reviewing the literature is to determine what has already been done that relates to one’s problem. Another important function of review is that, it points out research strategies, specific procedures and necessary instruments that have and have not been found to be productive, in investigating one’s problem. Familiarity with previous research also facilitates interpretations of the results of the study. Finally, these reviews give information that can either support or challenge the conclusions of the investigator’s research and therefore provide clues for later research. This chapter present a review of studies of online learning initiate in Demonstration

Multipurpose School as student's perspective during coronavirus pandemic.

## **2.2 Online Learning during the Coronavirus Pandemic**

Due to the unprecedented situation generated by the Coronavirus pandemic, the impact of the pandemic on education, universities, teachers and students became a subject of great interest for researchers. Investigating student's perception about online learning during the Coronavirus, All showed that students had a positive attitude towards E-learning, considering it helpful and useful in the time of the crisis created by the pandemic. A study involving 993 universities around in country revealed that institutions were affected by the pandemic in terms of research conferences, international mobility and education delivery most universities stating that they had to adopt online learning and had to face many challenges the most important being access to technology and teachers ability to deliver online courses.

Even though some universities had used E- learning as an additional method before the Coronavirus pandemic most of them were not ready for a full online experience. Thus, in order to continue to properly deliver education, optimization of the E- learning process is necessary. This optimization should also take into account student-teacher interaction and the language used in the communication between students and teachers should be clear but it should also contain specific terms for their field of study.

Furthermore Sun et al., in their study on students experience during online courses showed that students believe teachers should know how to adapt their lectures to the online environment not just simply transfer online the information that was usually taught in the traditional way and that they should give an adequate number of projects and assignments.

Moreover, Huang et al., identified seven important aspects that stand at the basis of online education and that have an essential role in optimizing learning in special circumstances like the ones created by the Coronavirus pandemic. These aspects involve managing and developing internet



infrastructure in order to avoid interruptions, especially during video-conferences, using friendly tools that help students assimilate and understand information, providing reliable, interactive and diverse electronic resources using social networks to build online communities for students in order to reduce feelings of isolation, using various effective techniques such as debates or learning based on discovery and experience providing services that help students and teachers learn about the latest policies adopted by universities and the government and encouraging collaboration between these institutions.

### **2.3 E-Learning is School Education**

Now a days, the school education system is in a continuous process of change, universities having to keep pace with the needs, desires and requirements of students. Thus, information technologies and e-learning systems are seen as essential factors in carrying out the activity of school, these institutions investing more and more in online systems and devices. However in the technology era, one of the main challenges of schools is the integration of innovative e-learning systems so as to reinforce and support both teaching and learning.

Due to its complexity, multiple definitions are proposed for the concept of e-learning. In a simple way, e-learning means using information and computer technologies and systems in order to build and design learning experiences. Similarly, Elm aria Engel Brecht describes e-learning as a concept that uses electronic media represented by the internet CD-s, mobile phones or even television in order to provide distance learning and teaching. In short e-learning refers to transferring knowledge and education by utilizing various electronic devices and the concept can be better understood when is integrated into a context in which technology is used in order to meet people's need to learn and evolve.

Early forms of distance education date back to 1840, when Isaac Pitman used mail and a shorthand technique in order to teach and collaborated with students and it is taught that the term e-learning began to be used in the educational field in the mid- 1990s. Taking the previously mentioned



aspects into account, this type of online learning can be viewed as a natural development of the concept of distance learning. A more complex and inclusive definition states that e-learning can be considered a particular form of teaching and learning, that integrates electronic resources and mediums whose role is to foster development and to make education and training more qualitative. E-learning is also viewed as a system used for formal teaching or a network where information is sent through electronic resources to a large audience. The main elements that ensure the functioning of such systems are computers and the internet.

Offering a wide range of possibilities for sharing information and uploading documents with different formats, E-learning has certain features that facilitated and nurture the teaching-learning process. Because it is a web-based system, the installation of additional tools is not required and once uploaded, the content is available for users at any time. In this regard the variety of technological tools that are available today allowed the development of many types of E-learning. Some of these types were identified by Horton and are represented by individual courses, that people take on their own without having classmates, virtual classes that are constructed similarly to a traditional face to face course, learning games, where the process of understanding and assimilating information is done through activities that are simulated, blended learning that combines traditional and online classes, mobile learning or knowledge management, which refers to the online distribution of documents and materials that are meant to educate not just individuals but large numbers of people, communities and organizations. Thus being a complex process, E-learning includes elements such as technological tools and design, e-learning platforms, content and users /participants. E-learning differs from traditional or other methods of learning because, according to Oye Et al. it does not only focus on instruction but also on learning that is adjusted to individuals. In other words while traditional education is more teacher-centred, with the development of e-learning a shift towards a student-centred education can be seen.

Difference between traditional and online learning may also be acknowledged in terms of principal sources of information, assessment or quality of education. While in traditional education students are evaluated only by teachers, who also represent their main source of information and the quality of education is dependent on teacher's knowledge and skills in online learning the education may be done with the help of tools and systems, students can procure information from various documents uploaded on the platform and the quality of education is influenced by the level of training that teachers have in using technology and also their teaching style. Cheung and Cable identified and described eight principles that stand at the core of effective online teaching such as encourage contact between students and faculty, collaborative learning, quick feedback, active learning, task time- encourage students to allocate more time for completing tasks, high – expectations – the teacher should communicate their expectations in order to encourage and motivate students, diversified learning and technology application.

Considering that the evolution and use of systems and technologies favoured the development and expansion of educational opportunities, the use of E- learning in school education and student's perception of the usefulness of this type of learning became subjects of interest for many researchers.

Relevant in researching the use of E-learning is the Technology Acceptance Model (TAM), which proved to be helpful in analysing and comprehending the way students intend to use E- learning. The model was developed by **Fred Davis**, who believed that the extent to which people accept the integration of technology can be an essential factor for the success of information systems. The model provides information and explains the relations behind the features of a system, the way people behave while using it and the attitude that people may have towards using the system – which is influenced by perceived usefulness and ease of use.

A study focusing on student's perception on the implementation and integration of E-learning platforms, while using TAM model as a



theoretical background, revealed that all students were of the belief that the E-learning module they took was useful and easy to use stating that they understood information and navigated and accessed documents effortlessly. A similar study based on the TAM model and developed at the **University of Jordan**, confirmed that both perceived usefulness and ease of use directly influence the attitude that students have towards using E-learning. Furthermore TAM was also used to investigate teacher's perception of E-learning, a study showing that together with their previous experience the perception teachers had regarding E-learning affected their behaviour and the way they actually use it.

With regard to the use of E-learning in school education, generally the classes provides results in favour of its usefulness, effectiveness and positive influence on student's performance. According to a study on the impact of E-learning on students and teachers most of the respondents, represented by teachers believe in the potential of E-learning to enhance the educational process and affirm that it improve collaboration and communication with students and that it offers flexibility and helps students to better understand the class. Investigating student's attitude towards E-learning, **Dookhan revealed** that their attitude was positive and that it improves when they perceive that E-learning systems are easy to access. Another study pointed out that, when used as an additional method to traditional classes, E-learning enhanced students learning experience and increased their engagement with the lectures. A research focused on comparing traditional with online learning showed that a high percentage of the students who completed the survey stated that they have assimilated more information in face-to-face classes than online but they positively perceived their overall online experience even though they have encountered difficulties while using E-learning platforms.

However, while most studies highlight positive attitudes towards E-learning, similar studies concluded that students were of the opinion that online courses do not have the same value as courses taught in the classroom and that students would rather accept blended learning a



combination of online and face to face classes, rather than only online learning.

Rapid developments in technology in technology have made distance education easy (Mc. Brien et al. 2009). 'Most of the terms (online leaning, open learning, web-based learning, computer- mediated learning, blended learning, m-learning for ex.) have in common the ability to use a computer connected to a network that offers the possibility to learn from anywhere, anytime in any rhythm, with any means'. Online learning can be termed as a tool that can make the teaching- learning process more student-centred, more innovative and even more flexible. Online learning is defined as "learning experiences in synchronous or asynchronous environments using different devices (e.g., mobile phones, laptops, etc.) with internet access. In these environments students can be anywhere (independent) to learn and interact with instructors and other students " (Singh & Thurman.2019). The synchronous learning environments is structured in the sense that students attend live lectures, there are real- time interactions between educators and learners and there is a possibility of instant feedback, whereas asynchronous learning environments are not properly structured. In such a learning environment, learning content is not available in the form of live lectures or classes, it is available at different learning systems and forums. Instant feedback and immediate response are not possible under such an environment (Littlefield.2018). Synchronous learning can provide a lot of opportunities for social interaction (Mc. Brien et al., 2009). Amidst this deadly virus spread such online platforms are needed where (a) video conferencing with at least 40 to 50 students is possible, (b) discussions with students can be done to keep classes organic, (c) internet connections are good, (d) lectures are accessible in mobile phones also and not just laptops, (e) possibility of watching already recorded lectures and (f) instant feedback from students can be achieved and assignments can be taken (**Basilaia et al., 2020**).

## 2.4 Online Teaching is No More an Option, It is a Necessity

The major part of the world is on quarantine due to the serious outbreak of this global pandemic COVID-19 and therefore many cities have turned into phantom cities and its effects can be seen in schools, colleges and universities too. Between all this online teaching and online learning can be termed as the panacea for the crisis. The Corona Virus has made institutions to go from offline mode to online mode of pedagogy. This crisis will make the institutions, which were earlier reluctant to change, to accept modern technology. This catastrophe will show us the lucrative side of online teaching and learning. With the help of online teaching modes, we can sermonize a large number of students at any time and in any part of the world. All institutions must scramble different options of online pedagogical approaches and try to use technology more aptly. Many universities around the world have fully digitalized their operations understanding the dire need of this chaos. Therefore, the quality enhancement of online teaching-learning is crucial at this stage. Online education in Chinese universities has increased exponentially after the Covid-19 outbreak. There was an overnight shift of normal classrooms into e-class rooms, this is educators have shifted their entire pedagogical approach to tackle new market conditions and adapt to the changing situations. During this tough time, the concern is not about whether online teaching-learning methods can provide quality education, it is rather how academic institutions will be able to adopt online learning in such a massive manner (Carey, 2020).

Resistance to change will not help and educational unit across the world. They will be judged on their pace to adapt to the changes in such a short period and their ability to maintain the quality. The reputation of educational units is on stake and under scrutiny. How well they behave and how well they maintain their quality of education amidst this crisis shows their adapting capabilities. The shift from face-to-face lectures to online classes is the only possible solution. Indeed, academic institutions would not be able to transform all of their college curricula into an online resource overnight. Distance, scale and personalized teaching and learning



are the three biggest challenges for online teaching. Innovative solutions by institutions can only help us deal with this pandemic (**Liquori & Winkler, 2020**). There is a requirement of a quick shift to online learning mode, therefore, the products by Google can be really useful under such problematic situations, they are (a) Gmail, (b) Google Forms, (c) Calendars, (d) G-Drive, (e) Google Hangouts, (f) Google Jam board and Drawings, (g) Google Classroom and (h) Open Board Software (not a Google product, helps in recording meetings in the form of files). These tools can successfully be used as an alternative for face-to-face classes (**Basilaia et al .., 2020**).

## **2.5 Problem Associated With Online Teaching and Learning**

There are number of technologies available for online education but sometimes they create a lot of difficulties. These difficulties and problems associated with modern technology range from downloading errors, issues with installation, login problems, problems with audio and video and so on. Sometimes student finds online teaching to boring and unengaging. Online learning has so much of time and flexibility that students never find time to do it. Personal attention is also a huge issue facing online learning. Students never find time to do it. Personal attention is also a huge issue facing online learning. Students want two-way interaction which sometimes gets difficult to implement. The learning process cannot reach its full potential until students practice what they learn. Sometimes, online content is all theoretical and does not let students practice and learn effectively. Mediocre course content is also a major issue. Students feel that lack of community, technical problems and difficulties in understanding instructional goals are the major barriers for online learning (**Song et al., 2004**). In a study, students were found to be not sufficiently prepared for balancing their work, family and social lives with their study lives in an online learning environment. Students were found to be not sufficiently prepared for balancing their work, family and social lives with their study lives in an online learning environment. Students were also found to be poorly prepared for several e-learning competencies and academic-type competencies. Also, there is a low-level preparedness



among the students concerning the usage of Learning Management Systems (**Parkes et al., 2014**).

## **2.6 Possible Solutions for Problems**

A lot of issues are attached to online education but we cannot ignore the perks of it in times of such crisis. We can always have solutions to fix these difficulties. Technical difficulties can be solved though prerecording video lectures, testing the content and always keeping Plan B ready so that the teaching- learning process cannot be hampered. Online courses should be made dynamic, interesting and interactive. Teachers should set time limits and reminders for students to make them alert and attentive. Efforts should be made to humanize the learning process to the best extent possible. Personal attention should be provided to students so that they can easily adapt to this learning environment. Social media and various group forums can be used to communicate with students. Communication is the key when it gets difficult to try reaching out to students via texts, various messaging apps, video calls and so on content should be such that enable students for practice and also hone their skills. The quality of the courses should be improved continuously and teachers must try to give their best. Online programs should be designed in such a way that they are creative, interactive, relevant, student-centred, and group- based (**Partlow & Gibbs, 2003**). Educators must spend a lot of time in making effective strategies for giving online instructions. Effective online instructions facilitate feedback from learners, make learners ask questions and broaden the learner horizon for the course content (Keeton, 2004). Institutions must focus on pedagogical issues and emphasize collaborative learning, case learning and project- based learning through online instructions (**Kim & Bonk, 2006**).

The challenge to educational institutions is not only finding new technology and using it but also reimagining its education, thereby helping students and academic staff who are seeking guidance for digital literacy.

## 2.7 Conclusion of Review of Related Literature

School education institute have only one platform for giving education for learners, this is online teaching – learning process. Where each and every educational activity are running by school management. E-learning is very useful during COVID – 19 pandemic, without online teaching – learning no one students get the benefit of education. Due to the second wave of corona pandemic still school institution are closed, there for all teaching – learning process are done by online platform. These aspects involve managing and developing internet infrastructure in order to avoid interruptions, especially during video-conferences, using friendly tools that help students assimilate and understand information, providing reliable, interactive and diverse electronic resources using social networks to build online communities for students in order to reduce feelings of isolation, using various effective techniques such as debates or learning based on discovery and experience providing services that help students and teachers learn about the latest policies adopted by school and the government and encouraging collaboration between these institutions.

In this teaching process many time every one suffering for technical issues. Technical issues are still the issues most difficult to solve, due to the capacity of the servers owned by school. Surely, school institution have made efforts in order to solve these problems and improve the way the online teaching platform work. Student’s technical problems remain poor internet connections, signal loss, lack of adequate digital devices, especially for students living in rural areas or students from families with low incomes. Many issues are still available then also in school institution are providing education to the students with the help of online teaching learning process.

There for online learning platform are effective during in COVID -19 pandemic, this is new change in educational institution where each and every traditional methods of teaching left over the pandemic situation. Moreover every one learning how to learn in online platform and using for academic achievement, class work, project and also for examination

purpose. However online teaching- learning is effective process for students during pandemic.



**CHAPTER- III**  
**METHODOLOGY OF**  
**THE RESEARCH**

## CHAPTER III

### METHODOLOGY OF THE RESEARCH

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#### 3.1 INTRODUCTION

The preceding chapter has given a broad overview of the researches investigation about online teaching & learning process attend by students. Researcher want to study about student's prospective online learning experience during coronavirus pandemic. The purpose of educational research cannot be completed without detailed research design involves systematic procedures, which starts from identification of problems to analyse the obtained data.

The preceding chapter has given a broad overview of the researches investigation of online learning procedure during coronavirus pandemic. The purpose of educational research cannot be completed without detailed research design involves systematic procedures, which starts from identification of problems to analyse the obtained data.

The purpose of this study is to know the students new methods of online learning experience during pandemic. Students are belong to Demonstration Multipurpose School of class 9<sup>th</sup> and 10<sup>th</sup> in Bhopal. This chapter deals with the methodology to achieve the objective of the study mentioned in chapter one.

- Methodology of the study
- Population
- Sample
- Tools
- Scoring

#### 3.2 Methodology of the Study

The Method of study explains the systematic way of finding the predetermined objectives. Moreover this provides the clean path to accomplish and achieve clear solution for the problems stated. The following are stages through which the research has passed to obtain the

conclusions. The techniques of descriptive research is being used to find out the online learning methods problems and positive view of students during coronavirus pandemic.

### 3.3 Population

The population will be consisting of Demonstration Multipurpose school Students online learning problems and there positive point of view during pandemic.

### 3.4 Sample

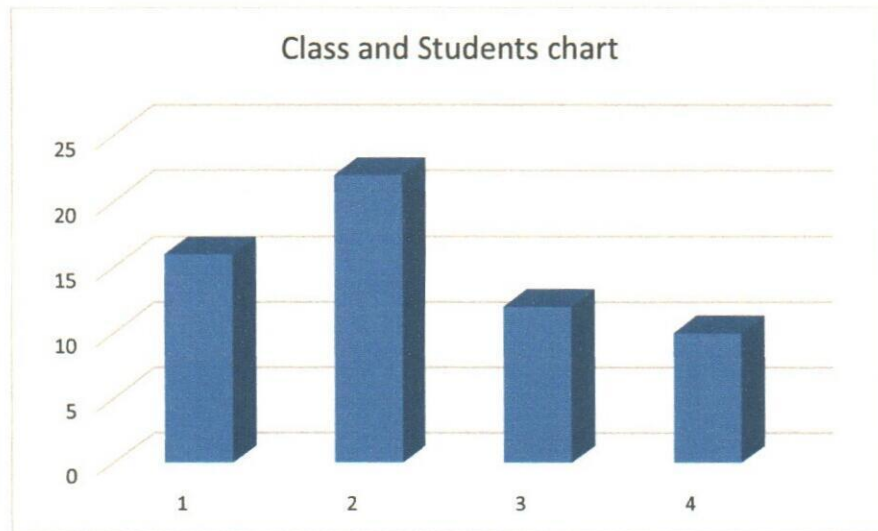
Data is collected from a selected sample and the sample is the representation of the population. In this study, the research design used is descriptive in nature as it describes the views, opinions and perception to the Demonstration Multipurpose School students. A good sample must be as clearly the representative of the entire population as possible and ideally it must provide the whole of the information about the population as from which the small number of sample has been drawn. Sampling is the process by which a relatively small number of individuals or measures of individual objects is selected and analysed in order to find our something about the entire population from which it is selected. For selective a representative sample in Demonstration Multipurpose School of class 9<sup>th</sup> and 10<sup>th</sup> students in Bhopal.

Detail of the Sample

**Table -1** Description of Class and Students...

<b>S. No</b>	<b>CLASS</b>	<b>NO. OF STUDENTS</b>
1	CLASS 9 <sup>th</sup> A	16
2	CLASS 9 <sup>th</sup> B	22
3	CLASS 10 <sup>th</sup> A	12
4	CLASS 10 <sup>th</sup> B	10
	TOTAL	60





**Figure 3.1 Number of responses: Representing population – Class and Students details in Chart.**

### 3.5 Tools

A Researcher require many data gathering tools or techniques. There are many different types of test available and many different ways to classify them.

For the present study, the one to five point scale was prepared by the researcher herself and administered on students of 9<sup>th</sup> and 10<sup>th</sup> class of the selected school. The tool used for this study was a self – made one to five point scale test, which consist of questions for positive point of view and problems facing by them while attending online learning.

### 3.6 Scoring

The respondents were asked to indicate the response to the response to the items by marking any one of the five response and three response options respectively.

**Table- 2** Scoring for Positive Item and Negative Items of Tool 1.

<b>Response</b>	<b>Positive Items</b>	<b>Negative Items</b>
Strongly Disagree	1	5
Disagree	2	4
Neither Agree nor Disagree	3	3
Agree	4	2
Strongly Agree	5	1

**Table-3** Scoring for Positive Item and Negative Item of Tool 2.

<b>Response</b>	<b>Positive</b>	<b>Negative</b>
Disagree	1	3
Neutral	2	2
Agree	3	1

### **3.7 Data Collection**

The Students were requested to write down their name, gender, school name, class, place and their own point of view about online learning class experience. They were respondents in questionnaire to choose their own option, time limit was not there because not able to direct contact with students. The data collection was done through online platform in Google form and Excel sheet after collecting the data the investigator rechecked the response sheet of the given scale.

### **3.8 Statistical Techniques**

Data has been analysed and interpreted using bar graphs, charts etc. The analysis has been carried out by using statistical techniques Sum and Average.

**CHAPTER – IV**  
**ANALYSIS, INTERPRETATION**  
**AND RESULTS**



## CHAPTER IV

### ANALYSIS, INTERPRETATION AND RESULTS

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#### 4.1 INTRODUCTION

Raw data is no-count while not analysis. This study to illustrated students perceptions concerning solely on-line learning through the E-learning platforms. Before the pandemic at school teaching learning education system, the employment of E-learning platforms was scarce, few academics were victimisation the platform and that they were principally victimisation its basic functions like uploading course material. The pandemic stunned most of the academics however additionally students, World Health Organization were terribly unacquainted on-line learning platforms, by forcing them to manoeuvre {in adoring aim an exceedingly in a terribly} very short time from ancient learning to solely on-line learning. So conducted {an online web an internet} form so as to look at student's perceptions concerning the power of faculty to supply data within the context solely online learning to their expertise towards online learning.

However valid reliable and adequate the information is also it doesn't serve any worthy purpose unless it's fastidiously altered, consistently classified and tabulated, scientifically analysed taken and rationally complete. Sensible analysis is characterised by what care has taken within the analysis and interpretation of knowledge once content full and depth answer to the analysis question of data users.

Analysis of knowledge suggests that finding out the tabulated material so as to work out inherent facts or factors in easy elements and golf shot the elements along in new arrangements for the aim of interpretation. the method of interpretation is actually one in every of the stating the result finding show that given objective wherever on-line learning in positive perspective and additionally facing drawback by the scholars whole information interpretation study can gift. This half is that the heart of the

analysis. It necessitate a vital examination of the results of one's analysis in lightweight of all the restrictions of the information gathering.

Interpretation of knowledge refers thereto necessary a part of the investigator, that is related to the drawing of logical thinking from the collected facts once Associate in Nursing analytic study. It's extraordinarily helpful and necessary a part of the study as a result of it makes doable the employment of collected information. Applied math facts by themselves don't have any utility. It's the interpretation that produces it doable for North American nation to utilize collected information in varied fields of activity. The utility of the collected information lies in its correct interpretation. It provides sure conclusion regarding the matter beneath study. Statistics could be a body of mathematical techniques or processes for gathering, organizing, analysing and decoding numerical information.

Keeping the objectives of the study visible, the information was collected and taken one by one. This chapter includes the analysis and interpretation of knowledge collected for the study from Demonstration Multipurpose School in Bhopal.

#### **4.2 Data Analysis and Interpretations**

This part of the study deals with the analysis, presentation and interpretation of data. Since the study main objective is to find out the positive side of online learning during pandemic and the difficulties face by students hue to the online learning. The investigator for deriving conclusions does qualitative analysis of data.

The investigator collected data from the self-made Questionnaire five point scale test. The obtained data is presented in tabular form below and is interpreted accordingly. The data is presented, analysed and interpreted according to objectives of the study as follows-

**Objective 1:** To study the positive side of Online Learning during COVID -19 pandemic.

In Questionnaire five point scale test was prepared in Google form in that 20 question related to objective according as students perspective prepared. That whole questionnaire was asked them to analyses there effective knowledge about new methods of online learning platforms.

There five points are given for analysis. They are “1.Strongly Disagree 2. Disagree, 3. Neither Agree nor Disagree, 4.Disagree, 5.Strongly Agree” given in Questionnaire to fill their experience about online learning process during pandemic.

This test was administered in one schools. In this schools class 9<sup>th</sup> and 10<sup>th</sup> students were participated. The data collected from Demonstration Multipurpose School in secondary class students, there total 60 candidates ware participated along with questionnaire 20 item. In positive data collection was marked as ‘5 mark to 1 mark’ which was given Strongly Agree to Strongly Disagree. There for data analysis calculation complete by given parameter. Those students are marked positive that will obtained ‘5’mark for each question and those are given ‘1’that was calculated Negative mark for each question.

Statement are scored and their average score were calculated based on the obtained number, the students were categorized as having positive data moderated data and negative data as stated below.

- The students whose average score falls between 3.5 and 5 are categorized as having positive side towards online learning during pandemic
- The students whose average score falls between 2.5 to 3.4 are categorized as having moderate side towards online learning during pandemic
- The students whose average score falls between 1to 2.4 are categorized as having moderate side towards online learning during pandemic.



Table 1-All students given data is shown in table 4.1.

S.No	STATEMENT	All Score	Average
1	Positive Item	175.5	7.468
2	Moderate Item	58.15	5.815
3	Negative Item	5.75	2.875

From the above table it can be deduced that-

1. The students were marked more for Positive data, that average score is highest (7.468).
2. The students were marked for moderated data ,that average score is (5.815)
3. The students were marked very less numbers as Negative data (2.8).

Thus, it can be concluded that the Online learning class during pandemic get positive response. Getting moderate data also therefor some students are still facing some problems while taking online class but according there need online class are useful for the students.

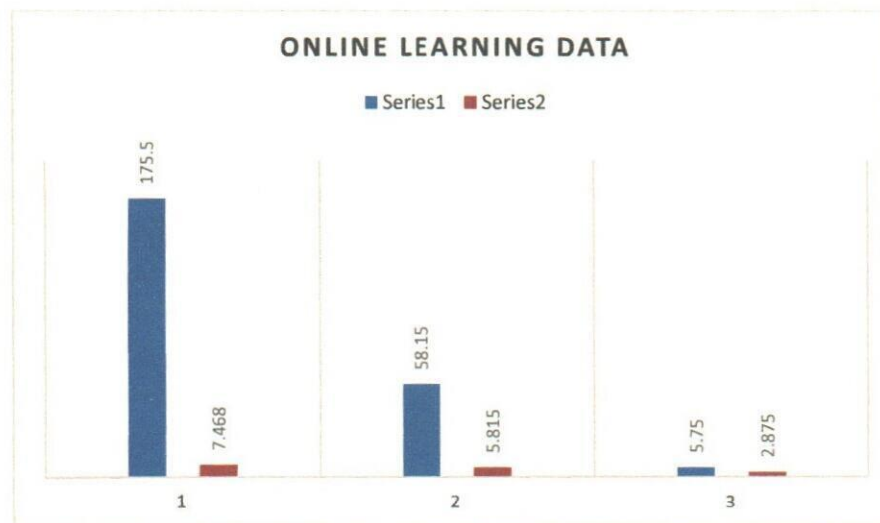


Figure 4.1 – In this graph all collected online learning data are presented.

**Objective 2:** To study the difficulties face by students due to the introduction of online learning during pandemic

There five points are given for analysis. They are “1. Strongly Agree 2. Agree, 3. Neither Agree nor Disagree, 4. Disagree, 5.Strongly Disagree”

given in Questionnaire to fill their experience about online learning process during pandemic.

Students are facing difficulties data collection was marked as '5 mark to 1 mark' which was given Strongly Disagree to Strongly Agree. There for data analysis calculation complete by given parameter. Those students are marked Strongly Disagree that will obtained '5' mark for each question and those are given '1' that was calculated Strongly Agree as mark for each question.

Statement are scored and their average score were calculated based on the obtained number, the students were categorized as having total score data and negative data as stated below.

- The students whose average score falls between 3.5 and 5 are categorized as having positive side towards online learning during pandemic
- The students whose average score falls between 2.5 to 3.4 are categorized as having moderate side towards online learning during pandemic
- The students whose average score falls between 1 to 2.4 are categorized as having moderate side towards online learning during pandemic.

Table 2- All students given data is shown in table 4.2.

S.No	STATEMENT	Score	Average
1	Mark Obtained data	1233	205.21
2	Strongly Disagree data	1204	6.72

From the above table it can be deduced that-

1. The students were obtained total Strongly Disagree score 1233, that average score (40.4).
2. The students were marked Strongly Disagree data average score is (6.72).

Thus, it concluded that the study of difficulties face by students in online learning during pandemic that survey reports is effective. In this study students marked strongly disagree data which average is 6.72, for this we

**CHAPTER- V**  
**SUMMARY, FINDINGS**  
**AND SUGGESTIONS**



## CHAPTER V

### SUMMARY, FINDINGS AND SUGGESTIONOS

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#### 5.1 INTRODUCTION

This chapter includes a brief summary of the study, findings and conclusions drawn from various analyses along with the suggestion for further research on related area have also been outlined.

The present study tried to investigate the study of Online learning during pandemic in Demonstration Multipurpose School class 9<sup>th</sup> and 10<sup>th</sup> Students perspective. The study focused on the students accepting online learning class with various issues.

#### 5.2 The Problem

Study the Online learning process in during COVID-19 pandemic in class 9<sup>th</sup> and 10<sup>th</sup> Students perspective”.

#### 5.3 Objective of the study

- To study the positive side of Online Learning during COVID- 19 pandemic.
- To study the difficulties face by students due to the introduction of online learning during pandemic.

#### 5.4 Sample of the study

Applying the Random Sampling technique of 60<sup>th</sup> Students in which Girls and Boys was selected for the study. Only Demonstration Multipurpose School Students was participated.

#### 5.5 Tools used for the study

A self- made Questionnaire for Students (Five point scale) test.

#### 5.6 Delimitation of the study

The study is the following limitations -

- The study was confined only one Demonstration Multipurpose School in Bhopal.
- The study was conducted classes of 9<sup>th</sup> and 10<sup>th</sup> students.
- The Questionnaire was prepare only 20 questions related to objectives.
- The Survey details collected by Google forms so that not able to interacted with students.

### **5.7 Major findings of the study**

In Questionnaire tools one Suggestion question also added to know the Students point of view about the Online learning class during pandemic. There many students given answers some are including here.

1. Most of the students want to attend regular teaching learning classroom process.
2. Students eagerly waiting for attend regular classes in campus.
3. Due to power cut in their local area not able to attend all classes.
4. Students are facing problems to attend back to back classes in their time schedule.
5. Online class is very useful for us for in pandemic only because they like to study in classroom with Teachers and classmates with school uniform with encourage environment.
6. In present scenario better not to open the school till COVID-19 pandemic was completely over.
7. Online learning classes are very effective during pandemic total positive data is (175.5) given by students.
8. Some students are still facing problems there for moderate data is (58.15) mark by students.

### **5.8 Educational Implication of the Study**

1. School administration should prepare daily routine as per student's aspects not take back to back classes
2. Teacher should held activity bases online learning programs, where students will busy with their activity work.
3. Online learning class time should reduce.

4. While taking classes ask some puzzle questions to the student's so that their minds will active to listen class lessons.
5. Teachers should Give chance to speak one by one students to each other for few movement.

### **5.9 Suggestion for the further Study**

1. The present scenario Students are accepted online learning process but they don't want to continue in future.
2. Teacher should collect student's feedback to improve the online learning class.
3. Every day online learning class teacher should clear student's doubts.
4. For Students assessment tests faculty can take Google form test to analysis their knowledge. Such that many e- learning platform should useable.

### **5.10 Summary**

In this chapter, the investigator has discussed about the problem, its theoretical background and the need of the study and the operational definitions of the terms. Investigating student's perception about online learning during the Coronavirus, All showed that students had a positive attitude towards E- learning, considering it helpful and useful in the time of the crisis created by the pandemic. The objectives of the study have been formulated and presented. The delimitations of the study have also been mentioned. Findings and Suggestion are also explain in this chapter. Online learning is only platform where knowledge will share with teaching and learning process. The study findings also reveal that the learners do not strongly feel that online learning improves their ability to accomplish academic tasks. The limitation of this study can be taken up as future research. Addressing the limitations of this study will increase the generalization of the findings.



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# Appendix

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## QUESTIONNAIRE

\*Required

Name of the Student .....

Name of the School .....

Class .....

Gender (Male / Female) .....

Village / District/ State .....

Please answer all question by circling one out of numbers 1-5 against each statement. (1.Strongly Disagree, 2. Disagree, 3. Neither Agree nor Disagree, 4. Agree, 5. Strongly Agree)

1. You have sufficient equipment and facilities (computer/ laptop/ Internet/Software) to participate for online class. .
2. You have sufficient computer knowledge /Mobile skills to manage your online class.
3. Guidelines are provide (ex. How to use relevant online tools) before starting online class by your subject Teacher.
4. Online class are effective than traditional / live class.
5. Online learning tools are easy to use .
6. Using online learning is enjoyable.
7. Happy about online teaching methods and study materials.
8. Do you able to participating each online class.
9. Motivation is high in participating online class.
10. Gained new experience of online learning during pandemic.
11. Do you happy about the student-teacher interaction during online learning
12. Do you have facility to ask questions or clear doubts during online learning?
13. Home environment is suitable for participating online learning class.
14. Do you like to participate for online class with conventional session after COVID -19 pandemic over.



Students facing problem while attending online learning class. (1. Strongly Disagree, 2. Agree, 3. Neither Agree nor Disagree, 4. Disagree, 5. Strongly Disagree)

1. Frustration and lack of interest in learning while being pandemic.
2. Lack of direct contact with others students/friends.
3. Inconsistent / poor contact and communication with the Teachers.
4. Do you facing difficult than classroom during online learning.
5. Teacher's personal attention and touch are less in online learning.
6. Possibility of distractions form other family members during online learning in home.

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