

# Impact of Coronavirus on Education System: A Survey of Uttar Pradesh State

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## ABSTRACT

The outbreak of Coronavirus pandemic has posed noxious concerns in terms of education sectors worldwide. One of the measures to control the Coronavirus pandemic was to shut down the public gatherings which includes the educational institutions, more than 100 countries all over the world come together to act on this situation. Due to Coronavirus immediate closing of educational institutions were done and billions of learners were left out. This research study is basically obtained from the campaign which runs on a mobile application named FILA. Data for the research were collected through 3 Questionnaires forms which were administered to 2500 respondents that were basically the parents of the children of different age groups, users of FILA application and citizens of Uttar Pradesh state. From each district only 5 records were collected and out of 75 districts only 50 districts were subject to this campaign. This study revealed the effects of Coronavirus are adverse and basically on education. The findings display that various educators and students are dependent on technology in order to ensure seamless learning during this pandemic.

## Keywords

Coronavirus, Educational institutions, Online classes, pandemic, Technology, Virtual learning.

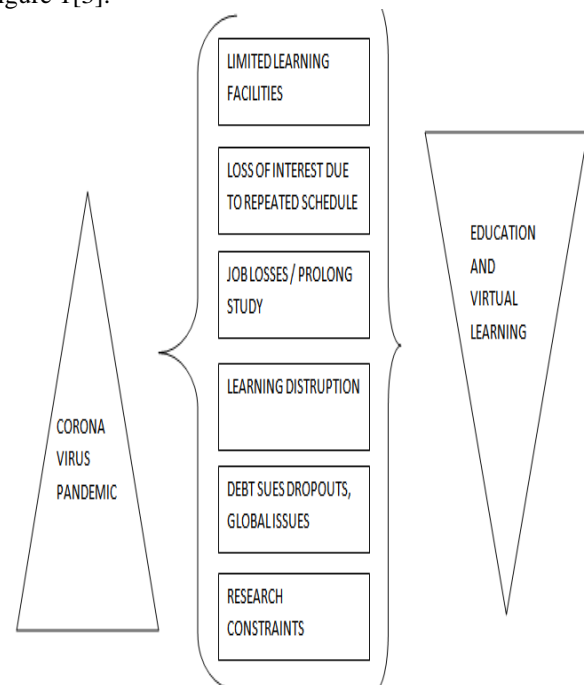
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## Introduction

The pandemic created because of novel Coronavirus is not bound to anything; it is only widening and enlarging its effects day after day. In this current situation no country and person is immune to this Coronavirus and everybody is just astonished by the growing figures of Coronavirus pandemic. This pandemic has forced millions of people to change their lifestyles and stay at home in a very short time span. It has ultimately limited various outdoor activities of humans and condemned them to live in home isolation. It has vastly affected the trade and association a lot. This Coronavirus has not only become a reason for complete lockdown in many countries around the world but also become the reason for many deaths including all categories of people and it also ensures that those who are left from it cannot survive easily. As the education field remains in the worst-hit list due to Coronavirus pandemic[1], [2].

Immediate closing of schools due to the Coronavirus pandemic has created adverse effects on the students such as an interruption is created in seamless learning and they are unable to grow and develop various characteristics in them like public speaking, extracurricular activities and team work, the students are deprived from all these. Food and nutrition is also one of the major factors as many poor and rural students come to school only for getting a meal for time as their parents can't even afford to feed them with food, and due to this pandemic many are not even getting the food for one time. Another factor is discrete distribution of facilities for students as those who are privileged can afford all the amenities but not everyone can afford such devices and internet cost. Students and educators also feel socially isolated as educational institutions can be considered as hubs for social activities and human

interactions but due to immediate closing of schools everyone is deprived of social gatherings which are essential for everyone to grow and develop, they are also shown in Figure 1[3].



**Figure 1:** Coronavirus Pandemic Has Adversely Affected The Educational Sector And In A Short Time Span The Educational Institutes Have To Switch To Virtual And Online Learning For Survival.

The immediate closing of school was the necessary measure in order to control the spread of Coronavirus but it is not

easy at all to manage all the things online. But technology can be considered as a therapist otherwise everything will be left undone and due to this pandemic a need for technology is felt hard in the education sector. This pandemic has lifted the market of online education to the skies. Due to technological advancements the educators and learners can learn from any location including home and in this time of pandemic home is considered as the safest place. During this pandemic when the world is struggling in order to contain the Coronavirus only the technological advancements allows us to do our chores seamlessly and in the education sector the technology and smart devices have become the new reality or new face of education. Technology is essential in order to maintain the social relations at the time of this pandemic. Technology aids in the forms of drones, electric buckets and robots for easy delivery of products and services. Therefore, technology helps learners and educators both to work productively and engage in educational work which helps them to reduce boredom[4].

The Online Education is rising with flying colors each day and especially in this time of Coronavirus pandemic. There are various tools and platforms which facilitate online education and earning like never before. As everyone is online today and doing several courses online and enhancing their skills and knowledge. Those tools and platforms are widely used during the time of pandemic, as their usage facilitates virtual interaction, relationships and connections between students and educators, virtual learning and seamless education. These tools lift the quality of educator's teaching skills and its experience as not only the student will learn more but also the educator like content development, digitally strong, course creation and sharing, critical thinking and live feedback from the children. Online classes make it possible for most of the privileged students and educators to teach and learn from their comfort zone. Moreover, technological knowledge increases various values in minds of both educators and students like a feeling of competition, confidence, live results, creativity and employability which also prepares them for the future[5].

Millions of students faced the challenge of virtual learning but there were also students who enjoy learning from home in their own comfort zone. However, the reality is quite astonishing as home learning is equally difficult for educators, students and guardians and especially in Uttar Pradesh which is the most populous state in the country, as the network issues, accessibility issues and availability issues are popular here and apart from that cost of smart devices are not bearable by everyone[5], [6].

### Research Questions

1. Is everybody getting an equal and fair chance to educate themselves or their children online?
2. Does virtual learning kill the creativity of students?

### Literature Review

In Impact of Coronavirus Pandemic on Education by Edeh Michael Onyema<sup>1</sup>, Dr. Nwafor Chika Eucheria, Dr. Faith Ayobamidele Obafemi, Shuvro Sen<sup>4</sup> Fyneface Grace Atonye<sup>5</sup> shows the adverse effects of pandemic on education. They discussed that Coronavirus has affected

vivid characteristics of schools and students such as practical knowledge, extracurricular activities etc. Affected persons are all the students, educators as well as the educational institutes and the guardians of students. They discuss that this is the high time to adopt technology in education, as this is the only way to continue the seamless education systems. They say that new strategies should be thought of by the educators[1].

In COVID-19 Era: Students' Role to Look at Problems in Education System during Lockdown Issues in Maharashtra by India Vikram R. Jadhav<sup>1</sup> survey within school going students that definitely a huge impact of coronavirus is done on education. Students are unable to concentrate properly for their studies and while some say that all the time in commuting is reduced so they are able to study well. Some students think that exams and lectures should be commenced in the online form only during this pandemic. All these virtual classes have increased the burden and pressure on the guardians to buy their children smart devices. Basically different aspects of students are noted here[7].

The article Impact of Covid-19 on Children's Education in Africa by 35th ordinary session discusses various negative and positive aspects of the virtual learning environment. The article shows how the lockdown is impacting on the school going students, college going students and to the small kids. They have discussed that some people think that it is enhancing the creativity of the kids while some think that it is ruining the creativity. So various aspects are described here[8].

In THE IMPACT OF THE CORONAVIRUS ON GLOBAL HIGHER EDUCATION by QS Quacquarelli Symonds shows the study in which discusses that this pandemic and lockdown has created a communication gap between the educators and students so, this is the alarming time to deliver the seamless education to the kids in order to maintain the complete decorum of educational sectors. So it is important for both the educators as well as for the teachers to understand the technological advancements in order to support the basic needs for the students. So to continuously adapt the new technologies the QS considered themselves trusted partners[9].

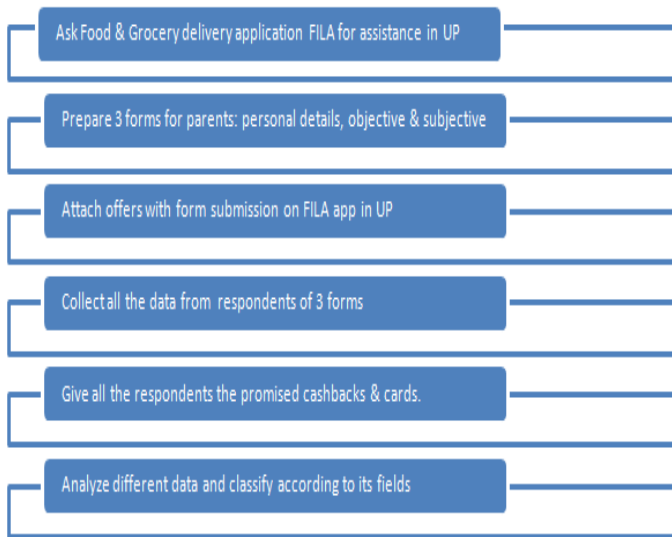
The impact of COVID-19 on higher education worldwide by International Association of Universities consists of the documents which provide complete information about the Coronavirus on education both in lower and higher education all around the globe. This document has all the survey tools and countries which are affected. They also show the details of the different countries in the form of numeric values in order to compare them[10].

### Methodology

In this study mixed responses came from 2500 respondents of 50 districts of Uttar Pradesh in which only 5 responses were collected from each district and some gifts or cashbacks were promised for the respondents. The data is collected from March till September 2020, the respondents are the parents of different age groups of children. All the data is purely collected from the response of the respondents.

**Design**

This section comprises the data flow as shown in Figure 2 of the following research model, everything is represented in a pictorial and step wise format.



**Figure 2:** The Figure Shows The Sequential Procedure Of The Research Model That How The Basic Idea Is Extracted To The Final Output Of The Following Survey.

**Sample**

This field includes the categories with their respective respondent’s numeric value in terms of their percentages and numbers as shown in Table 1 and Table 2.

**Table 1:** The Percentage And Number Of Respondents Is Categorized Into Two As Mother And Father In Which Majorly Mother Has Responded More Than The Fathers.

S.No.	Category	Percentage	Number of respondents
1	Mother	70%	1750
2	Father	30%	750

**Table 2:** The percentage of those parents are given here which have children of different age groups starting from 1-3 of age to 20-above.

S.No.	Parents with children of age groups	Percentage
1	0-3 age group	40%
2	3-8 age group	10%
3	8-12 age group	20%
4	12-20 age group	20%
5	20- above	10%

**Instrument**

In this field total software and hardware requirement of the research model is discussed below:

1. Food and grocery application: FILA, for providing assistance in order to complete this survey by the relevant audience i.e. parents.

2. Internet sources: The respondent must have internet services and an account of FILA application.
3. Gmail Account: The respondent must have a valid email address so that the respondent can get the promised prize via email address.
4. Phone pay /Paytm/ Google pay: The respondent must have accounts on such sites so that they could get the desired cash backs there for responding to this campaign.
5. Microsoft windows/ Operating system/ Internet: All these are needed in order to run various software’s to prepare the forms, posters and stickers. Three forms are developed using Excel sheets which are shown below as Table 3, Table 4 and Table 5 in which Table 3 collects the personal details of the respondents, Table 4 collects the objective responses from the respondents and in Table 5 some subjective questions were asked from the respondents which they have to answer in less than 50 words.

S. No.	PERSONAL DETAILS	Answers
1	Name	
2	District	
3	City	
4	Number of children	
5	Age of child	
6	Time spent with children	
7	Phone Number	
8	Address	

**Table 3:** This Is The First Form Respondent Will Get When He/ She Was About To Take Part In This Campaign Which Collects The Personal Information About The Respondents.

S.No.	Questions to be rated	YES	NO
1	Virtual studies are beneficial?		
2	Is no in-person meetings are the only way to keep children safe?		
3	Does your children have appropriate study material?		
4	Does your children have relevant electronic devices for studies?		
5	Do you think lockdown makes children creative?		
6	Do you prefer sending them school soon in pandemic?		
7	Do you find tough to manage home and children 24x7 difficult?		
8	Do you love spending all your time with your children?		
9	Do your children learn something new everyday?		
10	Does your children's score increase due to more self study?		
11	Do you think home is the right place your kids to get educated?		
12	Do your children become irritating or quite due to loneliness?		
13	Do your children miss your school premises?		
14	Do you think electronic gadgets are sabotaging children's growth?		
15	Do you think everybody have access of online studies?		

**Table 4:** This Is The Second Form That The Respondent Will Encounter, It Will Take Only Response In Yes Or No, And The Respondent Has To Just Mark On The Cell Of The Column.

S.No.	Questions to be answered in less than 50 words.	Answers
1	Do you think virtual classes is the new normal for students?	
2	Do you think virtual classes are killing creativity of students?	
3	Do you think getting in-person mentoring is more important?	
4	Do you think getting a classroom competition is important?	
5	Do you think getting scolded by teacher in class is important?	
6	Do you think children save money in commuting as they are at home?	
7	Do you think sports and extra curricular activities build character of students?	
8	How you handle your children during pandemic?	
9	How much time do you spent with your kid?	
10	Are you mother or father?	
11	Do you study with your kid to make them understand better?	
12	Do you feel your children is liking this environment?	
13	Are you able to afford study material and electronic gadgets for your children?	
14	Please share the most happiest moment with your kid during pandemic?	
15	Please share the helpless and sad moment with your kid during pandemic?	
16	Feel free to add your experience.	

**Table 5:** This Is The Third Form That The Respondent Will Encounter, It Will Take Subjective Answers With A Word Limit Of 50 Words, The Respondent Is Also Free To Share Their Experience With This Form.

**Data Collection**

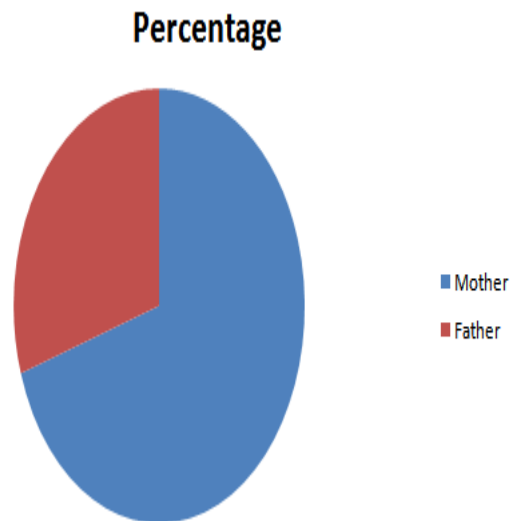
The campaign runs successfully on the FILA platform and the parents which responded were 2500, 5 from each district. Then the data which comes from these forms are stored in distinct databases for classification. The objective results are shown in Table 6.

**Table 6:** In This Table All The Responses From The 2500 People Are Recorded In The Two Categories As Yes Ratings And No Ratings, The Distinct Ids Are Stored In A Separate Database.

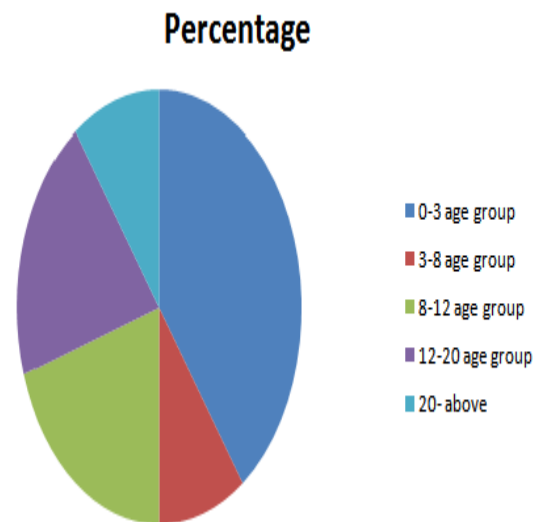
S.No.	Questions to be rated	YES Ratings	NO Ratings
1	Virtual studies are beneficial?	700	800
2	Is no in-person meetings are the only way to keep children safe?	1400	100
3	Does your children have appropriate study material?	900	500
4	Does your children have relevant electronic devices for studies?	1000	500
5	Do you think lockdown makes children creative?	400	1100
6	Do you prefer sending them school soon in pandemic?	100	1400
7	Do you find tough to manage home and children 24x7 difficult?	1400	100
8	Do you love spending all your time with your children?	400	1100
9	Do your children learn something new everyday?	800	700
10	Does your children's score increase due to more self study?	1000	500
11	Do you think home is the right place your kids to get educated?	200	1300
12	Do your children become irritating or quite due to loneliness?	1000	500
13	Do your children miss your school premises?	1200	300
14	Do you think electronic gadgets are sabotaging children's growth?	800	700
15	Do you think everybody have access of online studies?	100	1400

**Data Analysis**

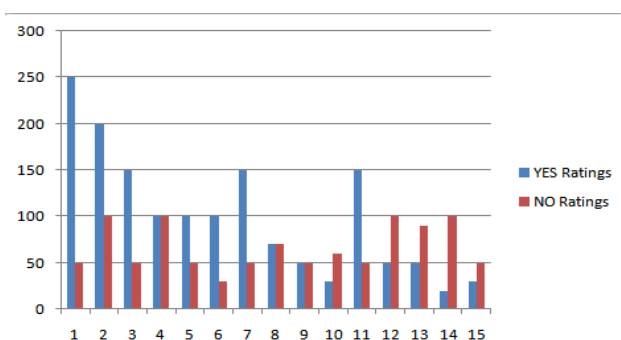
In this field the numeric data is represented in the pictorial form. All the required information is represented in the form of pie chart as in Figure 3 the percentage of respondents are shown as mothers and fathers. In Figure 4 the percentage of classification of respondents are shown whose children belong to different age groups. Whereas in Figure 5 the respondents who responded yes and no are classified and represented in the format of bar chart.



**Figure 3:** Percentage Of Respondents Are Shown In This Pictorial Representation. Respondents Are Sub Classified according To the Parent's Gender as Mother or Father.



**Figure 4:** This Pictorial Representation Indicates The Various Respondents Who Have Children Of Different Age Groups Starting From 0-3 Age Group To 20-Above Age Group.



**Figure 5:** The Respondents Result Of Table 4 Is Displayed In The Figure In The Form Of The Bar Chart Where The Objective Ratings Are Shown As Yes Ratings And No Ratings.

## Results And Discussions

This research indicates various hindrances and obstacles for educators as well students due to Coronavirus lockdown. Results clearly show how badly the kids and educators are affected due to Coronavirus. Major effects discussed in this paper are learning disruptions, job losses of teachers and educators who are not able to provide online classes, limited internet, less practical learning and creative learning, less fund raisings. This pandemic has created a larger gap between the privileged and underprivileged students. Many rural area students and poor students are unable to afford the requirements for online classes. Even there are less digital skills in people of rural Uttar Pradesh, poor connectivity, poor electricity and many more network issues are there. Basically in Uttar Pradesh there are inadequate facilities and less education funding which is affecting badly to all the poor and rural area people in this pandemic. The results of the Table 3 are stored in a database for easy access of information. The results of the Table 5 are different for every person as the required answers are in subjective format. Approximately 70% respondents agreed that students have less facilities for example lack of smart devices, internet sources, etc. were the main issues in conducting virtual classes. The study also shows that a kind of financial pressure is developed on both the students and educational institutions. The study shows that the world needs online educators more and this study brings us insight about the Coronavirus effect on various sectors but mainly on the education sector as students are the future pillar of the society.

## Conclusion And Implications

The novel Coronavirus pandemic has created a huge void in the field of education worldwide. Coronavirus has possibly affected each and every person on this planet in this era as it has noxious effects on mankind. It has disrupted all the sectors including educational sectors. In this research paper various impacts of Coronavirus on students are discussed, the data is collected by interviewing the student's parents according to their age group. This survey is conducted in 50 out of 75 districts in Uttar Pradesh and a total of 2500 samples were collected 5 from each district. The samples were collected with the help of grocery application named

FILA. Even those who responded also get various stickers, cash backs, gratitude cards, coloring kits and informatory posters. Those samples included 3 forms in which in first form personal details and number of kid's details were collected. In second form objective questions are mentioned in which the parents have to answer in a Boolean format i.e. yes/no or true/false. In the third form various subjective questions were asked from the parents. All the data from 3 forms are collected in a database for classification of data in various fields

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