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Understanding the Effect of COVID-19 on the Education System and the Students in Bangalore Region of India

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Author's contribution

The sole author designed, analysed, interpreted and prepared the manuscript.

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ABSTRACT

This study was intended to examine the effect of COVID-19 on students and education system in India. This study included the following objectives; to evaluate the affect of pre and post COVID-19 virus situation among students in India, to examine the impact of COVID-19 on education system in India. The questionnaire format of Google forms was applied in order to collect data. Primary data source was used and data was analyzed using the chi square statistical tool at 5% level of significance which was presented in frequency tables and percentages. The respondents under the study were 355 students of undergraduate and post graduate level in India. The study findings revealed that COVID-19 pandemic has a significant impact on the education in India.

Keywords: Pandemic; education; COVID-19; impact; lockdown; virus.

ABBREVIATIONS

COVID-19 : Corona virus disease of 2019

NCC : National Cadet Corps NSS : National Service Scheme

1. INTRODUCTION

Past few months the world has seen most disturbing and uncertain scenarios with the outbreak of COVID-19 virus. The pandemic has affected all sectors of human life and so does it has affected the educational system. With the current uncertain scenarios there has been a plenty of challenges for educational sector from planning and linking to educational objectives, need of motivational activities during these times, taking a look at student's profile, difficulty in validation of effectiveness and relevance of the course, lack to accessibility, preparation of online setup, deployment of staff, lack of concentrated learning environment to stresses related to daily institutional changes. But on the same time it provided us with pooled resources opportunities to transform learning to more digital platform and flipped classroom type [1,2]. Some basic shift in solutions involving consideration of students need, multiple platform of delivery, change in teacher training, more collaborative system between teachers and parents, using the asynchronous learning tools, constant follow-ups, feedbacks and monitoring the reach of the course, attitude of empathy, giving varied assignment with keeping in mind the curriculum, expansion of online learning and technology based learning in tertiary education with a thought towards the aftermaths [3,4]. [5] Showed that how various universities and higher education institutes of different counties displayed the relevant information about COVID-19 situation on their website and help increase the awareness among the students, development of app, reducing and keeping a step towards more stressful and uncertain situations [6,7]. With these basic solutions coming in play, more advanced prepositions has been suggested by [8].

- Structuring the organising and financing and mass education systems as same as before COVID-19.
- Lower income and lower middle income families will be the one effected the most, making them have educational financing more difficult to handle.

- Education systems after reopening should build themselves for any such uncertain situations.
- 4. This global pandemic showed the importance of health care system and education.
- Non-state providers shall develop plans for new economics of private school operations.
- Children currently not able to attend the school and online education should not be considered out of school and will be given chance after the gradual reopening of schools.
- Teachers must be seen as the key workers of the educational institutes and should be provided with valuable resources.
- 8. Sustainable Development goals to be kept in mind all along this situation and should be revisited again.

Where in most of the developing countries having luxuries of digital and technological advancement is not possible, which in turn leads it to the educational inequality gap. The digital and online prospect instead of being a solution may turn out to be a bane [9] although the students engaged in online educational activities found it useful and encouraging; still they find themselves in stress situations and in position of depression, anxiety and fear. It is mostly because of the uncertain situation, fear of unemployment, additional involvement in games and media, lack of social communication and low confidence [10]. The situation has become so worse in some reason that it has made students to take their own life because of lack of facilities and similar problems [11].

Then [12] suggested how this pandemic situation can affect the educational institute that it may turn into institute dedicated to research and provide a utilitarian and pragmatic prospective. Now with the better understanding of the situation and needs of educational sector the ministry should take relevant steps to solve the problem [13].

The study aims to assess the effect of lockdown on the student's education pre and post lockdown and how it influenced the engagement of students in other activities. The main objective behind the study remains to examine the effect of COVID-19 on education of students and its activities related to it.

- To investigate the post and pre COVID-19 effect on educational achievements of students.
- To understand what are the different activities and curriculum engaging students in college and hence students wanting to have regular educational platform rather than online.

2. MATERIALS AND METHODS

The study represents an analytical type of research design to examine the current uncertain phenomenon of COVID-19 and its effect on the education system. A descriptive statistical method is followed to examine this effect on undergraduate and post graduate sample of student population in Bangalore, India.

A sample of 355 students, including both (308) undergraduate and (47) post graduate students has been collected from Bangalore region of India. Bangalore is India's third largest city also known as the silicon valley of India, it contribute eight million to the population of India with this population being multi ethnic and diverse in nature. Students undertaking education in Bangalore belongs to different states and cultural background; this will be a pro to the study in terms of variety of thoughts and cultural background. The student volunteered for study majorly belonged to science and humanities stream of education. The method of data collection was Google forms questionnaire format with questions related to educational situation pre and post COVID-19 lockdown, following questions were asked as parameters of the guestionnaire: 1) Educational qualification of student 2) How interactive they found the classes at college? 3) The level of technological involvement in classes at college? 4) What is the level of understanding at college? 5) What is the level of doubt clearance at college? 6) How interactive they found the online classes? 7) The level of technological involvement in online

classes? 8) What is the level of understanding in online classes? 9) What is the level of doubt clearance in online classes? 10) The type of activities they were involved in college? 11) The type of activities they are adopting at home? 12) Preference of Educational system. 13) Impact on the education. A subcategory of involvement of students in extracurricular activities at college and home has also been recorded to see what leads the students to adopt regular teaching over digital platform. Descriptive statistical test has been run on the data of educational situation of students, to understand the differences between chosen parameters of the student populationin pre and post lockdown conditions using the SPSS- 17 statistical tool.

3. PRESENTATION AND ANALYSIS OF DATA

The following results have been obtained through the statistical analysis:

The sample population includes total of 355 students who took the survey with majority 308 in the undergraduate level of education. Their responses have been collected about the effect of COVID-19 on the education and curriculum and whether they would prefer to have online or regular time of education in the future. The student population responded with negative effect of COVID-19 on their education and they would continue the regular educational system rather than online. The responses remained same for both undergraduate and post graduate students.

Different questions related to classes in regular college environment has been asked to student sample population and the responses were in favor of regular college. With scaling of high to average the student found regular classes more suitable in terms of interactiveness, technological involvement, understanding and doubt clearance.

Table 1.1. Shows the total data sample with 308 under graduate students and 47 Post graduate students. Also the opinion of students about the effect of Covid-19 on their education and their preference of education system has been reflected

Educational qualification	Number of students	How C	OVID-19 affect education?	ting the		rence of on system	Total of each parameter
		Positive	Negative	Neutral	Regular	Online	_
Under graduate	308 (86.8%)	23	189	96	280	28	308
Post graduate Total	47 (13.2%) 355	6	27	14	43	4	47 355

Table 1.2. Shows the level of interactive sessions, levels of technological involvement, levels of understanding and the levels of doubt clearance in college

Educational qualification	Hov		they found t college?	the	Level	of technolo in classes	5	ement	Leve	of understa at col	anding of cla	asses	Level	vel of doubt clearance in clas at college? h Average Below average 7 131 24		lasses	Total of each
	High	Average	Below average	Low	High	Average	Below average	Low	High	Average	Below average	Low	High	Average		Low	parameter
Under graduate	135	147	19	7	92	185	21	10	137	131	24	16	137	131	24	16	308
Post graduate	25	14	7	1	11	30	3	3	26	16	4	1	26	16	4	1	47

Table 1.3. Shows the level of interactive sessions, levels of technological involvement, levels of understanding and the levels of doubt clearance in online classes

Educational qualification	Hov	v interactive online o	they found	d the	Level	of technolo in online	gical involv classes?	ement	Leve	el of underst clas	tanding in o ses?	nline	Leve	l of doubt cl clas		online	Total of each
	High	Average	Below	Low	High	Average	Below	Low	High	Average	Below	Low	High	Average	Below	Low	parameter
			average				average				average				average		
Under graduate	43	166	66	33	160	111	25	12	49	182	52	25	62	151	60	35	308
Post graduate	6	17	16	8	29	15	2	1	4	29	8	6	6	24	9	8	47

When the same questions were asked about the online classes, the response shifted to the scale of average to below average about interactive classes, understanding and doubt clearance with an exception of technological involvement which showed high assessment.

A relationship of interactive classes in regular college and online system has been shown with a significance level of .000 P value with the most assessment being distributed between high to average ranking.

A relationship of technology in classes of regular college and online system has been shown with a significance level of .000 P value with the most assessment being distributed between high to average ranking.

A relationship between levels of understanding in classes in regular college and online system has been shown with a significance level of .000 P

value with the most assessment being distributed between high to average ranking.

A relationship between levels of doubt clearance in classes in regular college and online system has been shown with a significance level of .876 P value with the most assessment being distributed between high to average ranking.

The Tables from 1.1 to 1.3 shows the data distribution and what students based on their educational qualifications experienced pre and post lockdown and shift in online education, what they observed and what is their choice of preference for classes. The Tables from 1.4 to 1.7 shows the comparison of their rating of levels from pre and post lockdown based on their engagement in class, technology involvement, and understanding of subject and doubt clearance of subject. Table 1.8 shows the activities students involved in college and how it shifted to different activities at home during lockdown. Sudden changes have affected the education system and students in India.

Table 1.4. Shows the difference in parameters among students about the interactive session of class pre and post lockdown

Level of interactive session in college		Level of into	eractive session in onl	line classes	3
Parameters	High	Average	Below average	Low	Total
High	26	83	40	11	160
Average	21	87	36	17	161
Below Average	2	12	5	7	26
Low	0	1	1	6	8
Total	49	183	82	41	355

P value (Asymp. Sig. 2 sided) = .000 shows significant difference in parameter before and after the lockdown education

Table 1.5. Shows the difference in parameters among students about technology involvement in class pre and post lockdown

Level of technology involvement in college	Level of technology involvement in online classes								
Parameters	High	Average	Below average	Low	Total				
High	68	30	4	1	103				
Average	102-	86	20	7	215				
Below Average	14	7	2	1	24				
Low	5	3	1	4	13				
Total	189	126	27	13	355				

P value (Asymp. Sig. 2 sided) = .000 shows significant difference in parameter before and after the lockdown education

Table 1.6. Shows the difference in parameters among students about level of understanding in class pre and post lockdown

Level of understanding in college	Level of understanding in online classes								
Parameters	High	Average	Below average	Low	Total				
High	30	90	19	9	148				
Average	15	107	31	13	166				
Below Average	6	11	8	4	29				
Low	2	3	2	5	12				
Total	53	211	60	31	355				

P value (Asymp. Sig. 2 sided) = .000 shows significant difference in parameter before and after the lockdown education

Table 1.7. Shows the difference in parameters among students about Level of doubt clearance class pre and post lockdown

Level of doubt clearance in College	Level of doubt clearance in online classes								
Parameters	High	Average	Below average	Low 24 14 4 1 43	Total				
High	31	73	34	24	163				
Average	29	77	27	14	147				
Below Average	4	15	5	4	28				
Low	3	10	3	1	17				
Total	67	175	69	43	355				

P value (Asymp. Sig. 2 sided) = .876 shows no significant difference in parameter before and after the lockdown education

Table 1.8. Shows the difference in type of activity involvement pre and post lockdown

Type of activity involvement in college		Type of activity involvement at home								
Parameters	Exercise	Reading	Social media	None	Total					
Sports	21	7	6	9	43					
NCC	1	2	1	3	7					
NSS	5	6	3	10	24					
Cultural Forum	34	14	15	34	97					
Other Forum	26	13	12	29	80					
None	40	17	8	39	104					
Total	127	59	45	124	355					

P value (Asymp. Sig. 2 sided) = .606 shows no significant difference in parameter before and after the lockdown education

4. RESULTS AND DISCUSSION

The results show that although all the students felt similar changes in the educational shift from regular classes and online classes, still they preferred the regular system of delivery. The data analysis clearly showed the shift in assessment from high to average regarding instructive sessions and understanding from college to online classes. The shift did not show an extremity but a variable of high value to average; this has to be taken into consideration that not all students are usually attentive in class weather it's at college or online. Whereas the assessment about technology involvement showed opposite variation with shift from average in college to high in online classes. Students must be overshadowed by the use of online teaching platforms while making the choice.

The engagement of students at various activities at college such as cultural forum, NCC, NSS, Sports and others gave a insight about the curriculum of the course, how education is not only about the delivery of content but also learning other skills and life lessons through the inclusion of these activities. Students participating in these ventures are actively involved in the development of skills like leadership, honesty, group learning, coordination etc which contribute to overall development of a student. Whereas the data also showed the involvement of students in more self development activities at home such as reading. exercising but with a major chunk focused on

social media and doing nothing. The activities like reading and exercising not consuming the major time frame of the leisure time students have, results in indulging in social media which gives a feeling of being around friends but not in real scenario and ultimately feeling more unsatisfied mentally exhausted.

The major reason behind the choice of regular classes by students could be the participation in various ventures at college apart from the curriculum, including the sports, cultural and social interactions. The online classes shall be included with activities with group engagement for the students to feel as involved in other curriculum activities as in regular system of course delivery.

The sample data set has been collected from one specific area and that's why the study is limited to geographical area of Bangalore, India so a more generalized idea could not be achieved. The answers provided by the students could be skewed as the choices made by them were selection of the moment due to the current circumstances. Whereas still the survey and research provided an idea how the students are facing these problems and what type of measures need to be taken in the field.

5. CONCLUSION

The study shows that the COVID-19 pandemic has a significant effect on the education of students in Bangalore, India. The shift went from high to average understanding, doubt clearance

and interactive classes from pre to post lockdown whereas the technological involvement showed vice versa. The pandemic has given chance to students to be more involved in self development activities at home but the greater influence of social media has overpowered the activities of reading the exercising, resulting in mentally exhausted and unsatisfied students wanting to attain regular type of education system with curriculum including cultural participation, NCC, NSS, sports and other ventures.

CONSENT

As per international standard or university standard, participant's written consent has been collected and preserved by the author(s).

COMPETING INTERESTS

Author has declared that no competing interests exist.

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ANNEXURE

Following has been distributed between the participants to collect data sample https://forms.gle/bngrowkzkgs8v1jua

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