A Study on Covid-19 Pandemic: An Impact on High School Education in Jharkhand

Gautam Kumar

Student, Department of Economics, Ranchi University, Ranchi

Abstract

Education is the pillar of any nation; it builds the skills, knowledge and human resources of a nation. Health and education are a major concern for any nation and keeping its countrymen healthy and educated is the responsibility of the nation's. The outbreak of the coronavirus (COVID-19) has declared by WHO a public health emergency of international concern (PHEIC). In this paper, we are discussing about covid-19 and its impact on high school education in the Jharkhand context. A high school is a secondary school, where teenagers are educated before starting college or getting jobs. It is an empirical paper where a literature review is d to understand the concept of Jharkhand schools in the context of online education, the importance of education and COVID 19 impacts on education from the perspective of parents, teach and students. For this purpose, a total of 30 respondents were selected from public sector schools of Ranchi. Data collection is done using questionnaires and independent sample test. Results of the study disclosed that online classes are the best solution in a pandemic and the tool is embraced by both the gender stakeholders equally. However, a few critical aspects that need a solution in this context are identified as trained teachers.

Keywords: Covid-19, Human Resources, High School, Education, Online Classes.

1. Introduction

Education is essential to build a strong foundation for the country's progress and growth. For example, education equips citizens with knowledge and skills that enable them to become productive and active members of their society. We all know that "health is wealth." So it's important to prioritize physical and mental well-being for a better quality of life.

But both health and education were affected during the COVID 19 pandemic. Coronavirus disease is also known as COVID-19 because CO stands for Corona, VI stands for virus, and 19 shows that this infection was introduced in 2019. It originated in China in December 2019. As the global outbreak of COVID-19 has proven, it is essential for everyone to take proactive measures to protect themselves and others from the virus. When this epidemic was transformed in mostly all countries WHO announced COVID-19 as pandemic on 12 March 2020.On 24 March 2020, the Government of India ordered a nationwide lockdown for long time. This lockdown was aimed at halting the spread of the novel coronavirus and protecting India's citizens.

The governments of nations have decided to temporarily close all schools, colleges and universities to reduce the spread of COVID 19. As a result, there has been an increase in the use of online learning techniques to ensure the continuity of education.Sometimes some hurdles also come along with online learning. Like internet connection failure, disturbances in the home environment, so many students are



unable to study online. This can prevent students from getting the full benefit of online learning, making it difficult to stay on top of their studies. Online platforms include WebEx, Zoom, and Microsoft Live Conference.

In conclusion, this crisis is not only teaching us how to fight this pandemic, but also how to create our future. SWAYAM, DIKSHA PORTAL, EPATHSHALA, SMILE, STEM-based portals and many others have been launched by the government of India to assist students. By leveraging these e-portals, we can equip future generations with technology-enabled knowledge, which could open up countless opportunities.

2. Covid-19 And Education

A child's first school is at home, and his or her first teacher is the mother.But we know that if we want to develop our child's social life and productivity so we need to send them to school. Sending them to school is essential for not only their development, but also for providing them with the tools they need to succeed.Our child can learn better when interacting with teachers and peers in a physical classroom. In a physical classroom, the child can interact with teachers and peers, stimulating their learning and development.Due to this COVID-19 pandemic, most countries have closed schools, colleges and universities. This interruption in the educational process could have long-term impacts on the development of young minds, with lasting consequences for the future of our societies.But due to our government's awareness, students are getting their education online. In this way, their learning becomes an ongoing process without interruption. This is allowing them to develop skills that they can apply in their future, preparing them for the digital world.

There are some advantages and disadvantages in India for digital learning in the COVID-19 period.

2.1 Advantages of digital learning during COVID19

- It is cost-effective.
- No geographical boundaries for learning.
- No time restriction for learning.

2.2 Disadvantages of digital learning in the COVID-19

- In rural areas students have no proper resources.
- No conducive environment for studying at home.
- Students are sometimes distracted by games, social media etc.
- No written work provided.

3. Objectives Of The Study

- Analyze the advantages and disadvantages of online study during the pandemic. Taking online classes during the pandemic has both pros and cons, and it is important to weigh them carefully before making a decision.
- Analyze COVID-19's impact on education.
- To analyze male and female respondents' perception of online study during COVID-19.



4. Research Methodology

For this research, data was collected from students, teachers and parents of public high school institutes in Ranchi, Jharkhand. A total of 30 respondents were selected by the convenience sampling procedure. To ensure the results were as representative as possible, the respondents were chosen from a variety of backgrounds. The study has used only primary data for the objectives of the study. Online questionnaire generated and sent via SMS to all respondents. The questionnaire was completed quickly and effectively due to the convenience of receiving it via SMS.

The researcher used a structured questionnaire using a Likert scale. The researcher prepared the questionnaire using a WhatsApp poll and sent links to students and faculty via WhatsApp. Participants were asked to rate their level of agreement or disagreement with the questions on a five-point scale, ranging from excellent to very poor. The data was collected and analyzed using IBM SPSS 29 software. Through the analysis, insights were gained which can help inform future decisions.

Data is collected from a total of 30 respondents. This data was gathered to assess the attitudes of the sample population towards a specific research topic.

	-	oup oraci			
	GENDER	N	Mean	Std. Deviation	Std. Error Mean
How much do you satisfied with "online teaching"	MALE	15	3.33	1.543	.398
concept in this covid19 situation?	FEMALE	15	3.20	1.082	.279
Do you feel that you have to study more in online	MALE	15	3.60	1.056	.273
teaching?	FEMALE	15	3.73	1.163	.300
Are you able to study in a	MALE	15	2.60	1.242	.321
peaceful environment at home?	FEMALE	15	3.07	.961	.248
Do you think that you have contributed towards	MALE	15	3.93	.961	.248
prevention of spreading covid19?	FEMALE	15	3.53	1.187	.307
Do you think that the online education will continue	MALE	15	3.80	1.424	.368
after this crisis?	FEMALE	15	3.87	.640	.165
Do you need physical	MALE	15	3.53	1.302	.336
documents or equipment to study at home?	FEMALE	15	3.80	.862	.223
Do you feel like isolated	MALE	15	3.13	1.302	.336
during online learning?	FEMALE	15	3.20	1.146	.296
Are you comfortable studying at home	MALE	15	2.67	1.345	.347
compared to school?	FEMALE	15	2.67	1.175	.303
Do you feel that all ICT'S	MALE	15	2.47	.990	.256
tools you use are sufficient to study online?	FEMALE	15	3.07	1.033	.267
Do you realize that most students don't have access to online education?	MALE	15	3.87	1.302	.336
	FEMALE	15	3.20	.941	.243
Do you agree that the online learning concept is suitable for all kinds of students?	MALE	15	3.20	1.082	.279
	FEMALE	15	2.80	1.146	.296
Do you feel that online teaching requires difficult monitoring?	MALE	15	3.73	.799	.206
	FEMALE	15	3.73	.961	.248
While studying at home,	MALE	15	3.20	1.014	.262
are you experiencing some health issues?	FEMALE	15	3.40	.986	.254
Do you feel that your family responsibilities increase	MALE	15	3.33	.976	.252
while studying from home?	FEMALE	15	3.20	1.014	.262

Group Statistics

In the Group Statistics table, the number of respondents (N), mean, standard deviation and standard error is represented for all the variables related to online teaching. Also from the table it is clear that the highest

E-ISSN: 2582-2160 • Website: <u>www.ijfmr.com</u> • Email: editor@ijfmr.com

value is recorded for the variable "Do you think that you have contributed towards prevention of spreading covid19?" for the male group (3.93). This suggests that the male and female groups are almost equally represented in the survey population. This indicates that the sample size was equal for both genders.

		inae	ependent sar	inhies les								
		Levene's Test fo Varianc			t-test for Equality of Means 95% Confidence Interval o							
		_				-	cance	Mean	Std. Error	Differe	nce	
		F	Sig.	t	df	One-Sided p		Difference	Difference	Lower	Upper	
How much do you satisfied with "online teaching" concept in this covid19 situation?	Equal variances assumed	3.769	.062	.274	28	.393	.786	.133	.487	864	1.130	
	Equal variances not assumed			.274	25.091	.393	.786	.133	.487	869	1.135	
Do you feel that you have to	Equal variances assumed	.708	.407	329	28	.372	.745	133	.406	964	.697	
study more in online teaching?	Equal variances not assumed			329	27.742	.372	.745	133	.406	964	.698	
Are you able to study in a peaceful environment at	Equal variances assumed	.865	.360	-1.151	28	.130	.260	467	.406	-1.297	.364	
home?	Equal variances not assumed			-1.151	26.341	.130	.260	467	.406	-1.300	.366	
Do you think that you have contributed towards	Equal variances assumed	.854	.363	1.014	28	.160	.319	.400	.394	408	1.208	
prevention of spreading covid19?	Equal variances not assumed			1.014	26.837	.160	.320	.400	.394	409	1.209	
Do you think that the online	Equal variances assumed	6.435	.017	165	28	.435	.870	067	.403	893	.759	
education will continue after this crisis?	Equal variances not assumed			165	19.431	.435	.870	067	.403	909	.776	
Do you need physical	Equal variances assumed	4.883	.035	661	28	.257	.514	267	.403	-1.093	.559	
documents or equipment to study at home?	Equal variances not assumed			661	24.293	.257	.515	267	.403	-1.098	.565	
Do you feel like isolated	Equal variances assumed	.249	.622	149	28	.441	.883	067	.448	984	.851	
during online learning?	Equal variances not assumed			149	27.558	.441	.883	067	.448	985	.852	
Are you comfortable	Equal variances assumed	.645	.429	.000	28	.500	1.000	.000	.461	945	.945	
studying at home compared to school?	Equal variances not assumed			.000	27.504	.500	1.000	.000	.461	945	.945	
Do you feel that all ICT'S tools you use are sufficient to study online?	Equal variances assumed	.088	.769	-1.624	28	.058	.116	600	.369	-1.357	.157	
	Equal variances not assumed			-1.624	27.951	.058	.116	600	.369	-1.357	.157	
Do you realize that most students don't have access to online education?	Equal variances assumed	.411	.527	1.607	28	.060	.119	.667	.415	183	1.516	
	Equal variances not assumed			1.607	25.492	.060	.120	.667	.415	187	1.520	
Do you agree that the online learning concept is suitable for all kinds of students?	Equal variances assumed	.000	1.000	.983	28	.167	.334	.400	.407	434	1.234	
	Equal variances not assumed			.983	27.908	.167	.334	.400	.407	434	1.234	
Do you feel that online teaching requires difficult monitoring?	Equal variances assumed	.660	.423	.000	28	.500	1.000	.000	.323	661	.661	
	Equal variances not assumed			.000	27.093	.500	1.000	.000	.323	662	.662	
While studying at home, are you experiencing some health issues?	Equal variances assumed	.198	.660	548	28	.294	.588	200	.365	948	.548	
	Equal variances not assumed			548	27.977	.294	.588	200	.365	948	.548	
Do you feel that your family responsibilities increase while studying from home?	Equal variances assumed	.049	.826	.367	28	.358	.716	.133	.363	611	.878	
	Equal variances not assumed			.367	27.959	.358	.716	.133	.363	611	.878	

MR



E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

represented in the survey population. This indicates that the sample size was equal for both genders.

independent Samples Test

		ina	ependent Sar	npies i est							
		Levene's Test fo Varianc				t-test for Equality of Means					
		F	Sig.	t	df	-	icance Two-Sided p	Mean Difference	Std. Error Difference	95% Confidence Differe Lower	
How much do you satisfied	Equal variances assumed	3.769	.062	.274	28	.393	.786	.133	.487	864	1.130
with "online teaching" concept in this covid19 situation?	Equal variances not assumed			.274	25.091	.393	.786	.133	.487	869	1.135
Do you feel that you have to	Equal variances assumed	.708	.407	329	28	.372	.745	133	.406	964	.697
study more in online teaching?	Equal variances not assumed	.700		329	27.742	.372	.745	133	.406	964	.698
Are you able to study in a	Equal variances assumed	.865	.360	-1.151	28	.130	.260	- 467	.406	-1.297	.364
peaceful environment at home?	Equal variances not assumed			-1.151	26.341	.130	.260	467	.406	-1.300	.366
Do you think that you have contributed towards	Equal variances assumed	.854	.363	1.014	28	.160	.319	.400	.394	- 408	1.208
prevention of spreading covid19?	Equal variances not assumed			1.014	26.837	.160	.320	.400	.394	- 409	1.209
Do you think that the online	Equal variances assumed	6.435	.017	165	28	.435	.870	067	.403	893	.759
education will continue after this crisis?	Equal variances not assumed			165	19.431	.435	.870	067	.403	909	.776
Do you need physical	Equal variances assumed	4.883	.035	661	28	.257	.514	- 267	.403	-1.093	.559
documents or equipment to study at home?	Equal variances not assumed			661	24.293	.257	.515	267	.403	-1.098	.565
Do you feel like isolated	Equal variances assumed	.249	.622	149	28	.441	.883	067	.448	984	.851
during online learning?	Equal variances not assumed			- 149	27.558	.441	.883	067	.448	985	.852
Are you comfortable studying at home	Equal variances assumed	.645	.429	.000	28	.500	1.000	.000	.461	945	.945
compared to school?	Equal variances not assumed			.000	27.504	.500	1.000	.000	.461	945	.945
Do you feel that all ICT"S	Equal variances assumed	.088	.769	-1.624	28	.058	.116	600	.369	-1.357	.157
tools you use are sufficient to study online?	Equal variances not assumed			-1.624	27.951	.058	.116	600	.369	-1.357	.157
Do you realize that most students don't have access to online education?	Equal variances assumed	.411	.527	1.607	28	.060	.119	.667	.415	183	1.516
	Equal variances not assumed			1.607	25.492	.060	.120	.667	.415	187	1.520
Do you agree that the online learning concept is suitable for all kinds of students?	Equal variances assumed	.000	1.000	.983	28	.167	.334	.400	.407	434	1.234
	Equal variances not assumed			.983	27.908	.167	.334	.400	.407	434	1.234
Do you feel that online teaching requires difficult monitoring?	Equal variances assumed	.660	.423	.000	28	.500	1.000	.000	.323	661	.661
	Equal variances not assumed			.000	27.093	.500	1.000	.000	.323	- 662	.662
While studying at home,	Equal variances assumed	.198	.660	- 548	28	.294	.588	200	.365	948	.548
are you experiencing some health issues?	Equal variances not assumed			548	27.977	.294	.588	200	.365	948	.548
Do you feel that your family	Equal variances assumed	.049	.826	.367	28	.358	.716	.133	.363	611	.878
responsibilities increase while studying from home?	Equal variances not assumed			.367	27.959	.358	.716	.133	.363	611	.878

The Sig. (2-Tailed) value in the above table is greater than 0.05 for all variables. Because of this, it can be concluded that there is no significant difference between gender perceptions about online teaching during the covid-19 pandemic. The Group of Statistics box revealed that the mean for the male group is greater than the mean for the female group; we can conclude that the male group was more concerned about online teaching during during COVID-19 than female group respondents.

E-ISSN: 2582-2160 • Website: www.ijfmr.com

- Email: editor@ijfmr.com



According to high school results, we see positive progress in all data. This indicates that our students are continually working hard and improving their academic performance. This indicates that our efforts to switch to online teaching have been successful, as it has enabled students to continue to receive quality education even during this unprecedented time.

5. **Results And Discussion:**

The results also showed that when students, teachers and parents were interviewed to find out their The pandemic has challenged the education system and accelerated the adoption of online learning, changing the way we learn forever. It was established that both gender groups hold similar perceptions about the online learning process and its impact on student education. Thus, it can be concluded that the perceptions about online learning are largely similar among both genders. In most parts of the country, 4G connectivity is available at low cost. As a result, mobile data has become more accessible and affordable for the majority of Indians.Due to powerful network connections, students can learn in the classroom environment as they are sitting directly in the classroom. As a result, students can benefit from increased collaboration and better integration of technology into their learning experience. To that end, it is important to ensure the system is equipped with the necessary features to enable our teachers to fulfill their duties and provide our students with the best education possible. To ensure our teachers are equipped with the right tools to foster success in our next generation, the system must be optimized for our teacher's training for online classrooms.

This training is essential to ensure that teachers understand how to effectively deliver the curriculum in a virtual environment. Going forward, virtual classes will equip our nation's students with the necessary skills and knowledge to foster educational success in the coming years. By introducing online classes, we



can help our students build the skills they need to succeed in the future. Consequently, it is vital for schools to prioritize these investments in order to achieve the best possible learning outcomes.

6. References

- 1. COVID-19 pandemic Wikipedia. (n.d.). Retrieved January 9, 2021, from https://en.wikipedia.org/wiki/COVI D-19_pandemic .
- 2. https://en.wikipedia.org/wiki/COVID-19_lockdown_in_India.
- 3. Impact of COVID-19 on the Education System in India. (n.d.). Retrieved January 9, 2021, from https://www.latestlaws.com/articles /impact-of-covid-19-on-educationsystem-in-india/
- 4. Impact of Pandemic COVID-19 on Education in India by Pravat Kumar Jena :: SSRN. (n.d.). Retrieved January 9, 2021, from https://papers.ssrn.com/sol3/papers. cfm?abstract_id=3691506
- 5. The Education System in India GNU Project Free Software Foundation. (n.d.). Retrieved January 9, 2021, from https://www.gnu.org/education/edu -system-india.en.html
- 6. Jena, P. K. (2020). Impact of Pandemic COVID-19 on Education in India.
- 7. International Journal of Current Research (IJCR), 12(7), 12582–12586. https://papers.ssrn.com/abstract=369 1506
- 8. International Journal of Current Research (IJCR), 12(7), 12582–12586. https://papers.ssrn.com/abstract=369 1506
- 9. Dingel, J. & Neiman (2020). How Many Jobs Can be Done at Home?. NBER Working Paper No. 26948.
- 10. Francis, T. (2019). What college presidents need to know about student success. Journal of Research on the College President, 3(1).