

Impact of Covid -19 Pandemic on Education System

Muhammad Akram¹, Urooj Rehman², Misbah Ahmed³

¹Government College University Faisalabad, Pakistan; ²Jinnah University for Women, Karachi, Pakistan; ³Clinical Science Division Hamdard Laboratories Waqf, Pakistan
makram_0451@yahoo.com

Article Info:

Submitted:	Revised:	Accepted:	Published:
Feb 23, 2025	Mar 9, 2025	Mar 21, 2025	Mar 26, 2025

Abstract

The symptoms of COVID-19 pandemic are similar to those of Severe Acute Respiratory Syndrome which is a group of viral diseases linked to respiratory infections. The first SARS case was reported in remote and ancient areas of China in 2003, and it quickly spread throughout the world. In order to combat the global epidemic, the World Health Organization has worked with numerous health experts worldwide. In a time record, students are separated from their physical spaces, providing essential social connections, to spend extended hours seated behind a screen. Most countries have seen a slower rate of adoption of online learning platforms, which have been driven mostly by educational institutions that already had operational digital learning platforms.

Keywords: Covid-19, Pandemic, Social Interactions, Online Platforms, Academic Institutions, Physical Spaces

Introduction

This pandemic has had a major impact on education worldwide and on our educational system in Pakistan specifically. People all throughout the world have been greatly impacted by overcoming the anticipated difficulties brought on by the "virus" (Lai et al. 2020). There has been an unusual rise in the number of people afflicted with this virus. The terrible question of whether the lockdown will flatten the curve and save lives is weighing heavily on even our policymakers (Kloozet al. 2020).

Students in higher education took part in their classes, practicals, projects, and assignments. All of a sudden, everything stopped. In order to find safety in their homes, several out-of-town students fled the residential dorms. (David and others, 2023). It became clear that some students had forgotten their study aids as they hurried off. Many of their notes, books, and handouts are safely kept at their lodgings. Teachers have also maintained their files and academic activity data across their departments and schools (SYLVIA et al. 2019). Due to our social isolation, we instantly turned to technology as a communication tool. Since social isolation has deprived us of human interaction, we are increasingly relying on technology and the internet to reestablish our human connections. Furthermore, the pandemic forced everyone working in the education sector to step outside of their comfort zones and recognize the benefits of technology (Bozkurt et al., 2020).

Discussion

The COVID-19 pandemic has irrevocably transformed global education systems, compelling stakeholders to confront long-standing infrastructural and pedagogical challenges. Among the most significant shifts has been the rapid adoption of digital tools to sustain learning continuity. While this transition exposed disparities in access and preparedness, it also highlighted the resilience and adaptability of educators and institutions. However, teachers who were previously mostly accustomed to face-to-face interaction and in-person classroom settings are gradually embracing new e-teaching and e-learning methodologies (Singh et al., 2021). This shift underscores a collaborative effort between teachers and students to leverage educational technology, with willingness growing alongside practical experience (Furtak et al., 2019).

Administrators, educators, and students were inspired to swiftly develop innovative solutions by the global pandemic (McLeod et al., 2021). Particularly for students, it is now possible to comprehend the actual meaning of time during this period of confinement. As a result, educators are urged to use interactive software, asynchronous online resources like Google Classroom, Facebook Messenger, WhatsApp groups, or even emails to generate teaching materials. Zoom, GoToMeeting, WEBEX, and Skype are examples of synchronized audio and video tools for education and communication (Guffey et al., 2021).

The pandemic identified the critical problems that had been affecting schools for several years ago. However, this health crisis can also be viewed as an opportunity to reconsider the role that educational facilities play in the community (Gardner et al.2021).The epidemic has revealed the false sense of equality amongst various social groups or ethnic groups in every nation. For a variety of causes, the epidemic has disproportionately affected marginalized people, with the intertwined effects of class warfare and racism being of particular significance. This suffering will be particularly severe for those who are now deprived access to basic human rights including proper housing, food, healthcare, and education (Thomas et al.2017).

The start of the first term in 2020 quickly became an extraordinary circumstance, as is the case with many educators around the world. I was working from home by the end of March, locked out of my university office, and frantically getting ready to teach online using Zoom. (Jandrić et al.2020).

As of right now, I have not gone back to work, and I probably won't be allowed to until the first half of 2021. Online instruction will remain in place for the foreseeable future. Once the first shock of the lockdown had passed, I began to think about how teachers may respond to the closures. (Breslin et al.2023).

According to increased interaction among educators and leadership from many persons, teachers have often been able to adapt quickly and use a variety of technology for online instruction (Oliveira et al.2021).

In addition to a renewed focus on teaching at the university level, attention has been drawn to the important work that instructors do in general. The many important roles that schools play in society outside of teaching have also received attention in some countries (Darling-Hammond et al.2013).

Discrimination regarding educational opportunities for low-income families, particularly in rural and isolated locations, have drawn special attention (Lott et al.2002).Teachers have been concerned about the health and wellbeing of their children, especially in low-income nations where complications with healthcare and nourishment are most important (Dooley et al.2020).

Though it is undetermined, a shortage of constancy in schooling is predicted to have a negative impact on students' development. Because of the uncertainty surrounding the continuation of programs and procedures, both teachers and students suffered stress.

Furthermore, university students and upper secondary school students are worried about the validity of assessments as a result of remote learning.

The degree and quality of remote learning options have varied greatly, ranging from regular classes with little interruption to online learning to reliance on printed notes and scant resources via radio or television (Burns et al.2023).For physical education, children of critical workers or those with special needs have frequently been given preference. In most cases, university partial closures entailed closing physical locations while quickly converting to online education. Infrastructure issues in a number of countries included inadequate electrical supply, internet access, and technology in homes and schools. In several nations, the dependence on international students for university enrollment and funding was made public. (Altbach et al.2019).

It might include focusing on the future, responding quickly, and highlighting leadership viewpoints that are grounded in moral principles and ideals. One model that is already well-suited for managing amid a significant crisis is the seven domain and capability leadership model that was previously discussed (Rzepka et al.2025).

The seven areas are research-based, long-lasting, and relevant in a variety of settings. The study originated previous to the widespread recognition of the coronavirus and continued throughout the "lockdown" and beyond, impacting colleges and institutions in 2020. Regarding employment, the lockdown in the UK required working from home beginning March 23, 2020, with some limitations lifting in August. As of September, study participants continued working remotely as colleges shifted to online learning and the number of virus cases increased, resulting in a second closure (Parker et al.2021). The purpose of this study was to better understand how colleges recruit and retain international talent amid difficult socioeconomic times. This was accomplished through the

use of qualitative methodologies in an exploratory phenomenological approach, specifically by recording narratives through repeated semi-structured interviews (Henriksen et al.2022).An interpretive, inductive approach was selected for data analysis in order to facilitate the emergence of subtleties in this understudied aspect of TM, given the importance of context for both talent and TM. (Abrahams et al.2024). The research period observed modifications, with the lockdown and post-lockdown phases focusing on current employees and doctorate students who were deemed significant and in need of focused assistance. The formality of talent support changed to an informal one. Extended and more regular online meetings, together with follow-ups about welfare and well-being issues involving them and the university, were made necessary in order to support present staff and students (Guo et al.2023).

When discussing how their TM working habits had changed, the quick spread of the coronavirus and its socioeconomic effects became a major topic, as was the need to take on other responsibilities in order to support their team members and pupils. Regarding the current situation, the significance of educational technology and communication systems has been emphasized by virtual education. It is expected that the COVID-19 pandemic's virtual education practices would cause a paradigm shift in higher education, changing it from its conventional shape to one that is appropriate for modern learning environments (Mbiza et al.2021).

The opportunity for individual teachers to observe how their lesson impacts students' development is what makes teaching a true intellectual challenge. Adequate ICT integration into higher education programs' curricula is a crucial step. Most people consider education to be the process of helping people adjust to their surroundings (Rogers et al.2020).

Virtual education, which is defined by the extensive use of information and communications technology (ICT) in educational delivery, thereby blends remote education and virtual learning (Ali et al.2020). In order to overcome time or location constraints, it replaces traditional classroom settings with interactive learning environments or virtual communities that use both synchronous and asynchronous online communication. The distance Online learning combines the advantages and capabilities of e-learning and remote education. The educational transaction, which takes the form of a time-sustainable virtual community of learners, is the focus. With an emphasis on self-directed learning, the

remote education model's conventional focus is on correspondence or content delivery. (Adinda et al.2020).

Computer conferencing and the collaborative constructivist learning methodology are the foundations of virtual education, which fosters teamwork in an engaging classroom setting. Virtual learning is mostly defined in classroom and residential settings, although it includes more than just using ICT as tools to acquire information. (Barajas et al.2000).

Although it is frequently said that universities are impervious to drastic change and redeployment, their past is replete with upheavals, changes, and even serious crises. Universities' adoption of the dual aim of education and research during the first "academic revolution" was one instance of change.

Although universities have always been a part of society, it is rare that the nature and direction of this alignment have been clearly stated or given strategic attention (Pucciarelliet al.2016). Different waves and historical political and social contexts have led to a more explicit expression of alignment.

In nineteenth-century nation-building, colleges served a variety of societal purposes, such as the land-grant system or the California master plan in the USA, and comparable models were used in societies that were as different as Japan and Germany. Distribution is currently limited to a specific location and time. Time to act like it's 2020. Teachers can provide content via the internet. A significant disadvantage of online learning, as seen by educators, is its dismal success rates (Lack et al.2013). However, does classroom instruction have its limitations particularly when it comes to human interaction? There are numerous issues with the system. The human element typically exacerbates them rather than serving as a bridge to reason (Grechet al.2019). The concepts of self-paced online institutions are disapproved of by traditional academia, which has mostly failed to address the obvious difficulties (Xu et al.2020; Olsen et al.2007; Benner et al.2022; Watermeyer et al.2021).

Conculsion

Theoretical studies that were primarily implicitly functional in focus established the foundation of higher education in social structures and evolutionary directions that transpired in phases based on degrees of modernization. Universities were thought to

reflect and reinforce national identities and state development. The field aligned with the new field of innovation economics as universities became more significant as overt drivers of social and economic development. Change happens far more dramatically during ruptures, and institutions are forced to adapt in ways that no longer provide them with identity or direction.

References

- Abrahams, T. (2024). *Exploring the digital capabilities of a private utility for society 5.0 at a selected organisation in the Western Cape* (Doctoral dissertation, Cape Peninsula University of Technology).
- Adinda, D., & Mohib, N. (2020). Teaching and instructional design approaches to enhance students' self-directed learning in blended learning environments. *Electronic Journal of eLearning*, 18(2), 162-174.
- Altbach, P. G., Reisberg, L., & Rumbley, L. E. (2019). *Trends in global higher education: Tracking an academic revolution* (Vol. 22). Brill.
- Ali, W. (2020). Online and remote learning in higher education institutes: A necessity in light of COVID-19 pandemic. *Higher education studies*, 10(3), 16-25.
- Barajas, M., & Owen, M. (2000). Implementing virtual learning environments: Looking for holistic approach. *Journal of Educational Technology & Society*, 3(3), 39-53.
- Benner, M., Grant, J., & O'Kane, M. (2022). The university mission before, during and after COVID. In *Crisis Response in Higher Education: How the Pandemic Challenged University Operations and Organisation* (pp. 3-22). Cham: Springer International Publishing.
- Breslin, T. (2023). Schooling during lockdown: Experiences, legacies, and implications. In *Pandemic Pedagogies* (pp. 73-95). Routledge.
- Bozkurt, A., Jung, I., Xiao, J., Vladimirsch, V., Schuwer, R., Egorov, G., ... & Paskevicius, M. (2020). A global outlook to the interruption of education due to COVID-19 pandemic: Navigating in a time of uncertainty and crisis. *Asian journal of distance education*, 15(1), 1-126.
- Burns, M. (2023). Distance Education for Teacher Training: Modes, Models, and Methods. *Education Development Center, Inc.*
- David, A. (2023). *There's No Place Like Home: Post-Secondary Student Stories of Disaster-Induced Home Loss* (Doctoral dissertation, University of Calgary (Canada)).
- Darling-Hammond, L., & Lieberman, A. (2013). *Teacher education around the world*. Routledge.
- Dooley, D. G., Bandea, A., & Tschudy, M. M. (2020). Low-income children and coronavirus disease 2019 (COVID-19) in the US. *JAMA pediatrics*, 174(10), 922-923.
- Furtak, E. M., & Penue, W. R. (2019). Coming to terms: Addressing the persistence of "hands-on" and other reform terminology in the era of science as practice. *Science education*, 103(1), 167-186.
- Guffey, M. E., Loewy, D., & Griffin, E. (2021). *Business Communication Process and Product, Brief Edition*. Cengage Canada.

- Gardner, C. J., Thierry, A., Rowlandson, W., & Steinberger, J. K. (2021). From publications to public actions: the role of universities in facilitating academic advocacy and activism in the climate and ecological emergency. *Frontiers in Sustainability*, 2, 679019.
- Grech, M., Horberry, T., & Koester, T. (2019). *Human factors in the maritime domain*. CRC press.
- Guo, L. (2023). The delayed, durable effect of expressive writing on depression, anxiety and stress: A meta-analytic review of studies with long-term follow-ups. *British Journal of Clinical Psychology*, 62(1), 272-297.
- Henriksen, M. G., Englander, M., & Nordgaard, J. (2022). Methods of data collection in psychopathology: the role of semi-structured, phenomenological interviews. *Phenomenology and the Cognitive Sciences*, 21(1), 9-30.
- Jandrić, P., Hayes, D., Truelove, I., Levinson, P., Mayo, P., Ryberg, T., ...& Hayes, S. (2020). Teaching in the age of Covid-19. *Postdigital Science and Education*, 2, 1069-1230.
- Klooz, D. (2020). *The Covid-19 Conundrum*. David Klooz.
- Lack, K. A. (2013). Current status of research on online learning in postsecondary education. *Ithaka S+R*, 3.
- Lai, C. C., Shih, T. P., Ko, W. C., Tang, H. J., & Hsueh, P. R. (2020). Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and coronavirus disease-2019 (COVID-19): The epidemic and the challenges. *International journal of antimicrobial agents*, 55(3), 105924.
- Lott, B. (2002). Cognitive and behavioral distancing from the poor. *American Psychologist*, 57(2), 100.
- Mbhiza, H. W. (2021). Shifting Paradigms: Rethinking Education during and Post-COVID-19 Pandemic. *Research in Social Sciences and Technology*, 6(2), 279-289.
- McLeod, S., & Dulsky, S. (2021, March). Resilience, reorientation, and reinvention: School leadership during the early months of the COVID-19 pandemic. In *Frontiers in education* (Vol. 6, p. 637075). Frontiers Media SA.
- Oliveira, G., Grenha Teixeira, J., Torres, A., & Morais, C. (2021). An exploratory study on the emergency remote education experience of higher education students and teachers during the COVID-19 pandemic. *British Journal of Educational Technology*, 52(4), 1357-1376.
- Olsen, J. P. (2007). The institutional dynamics of the European university. In *University dynamics and European integration* (pp. 25-54). Dordrecht: Springer Netherlands.
- Parker, S. W., Hansen, M. A., & Bernadowski, C. (2021). COVID-19 campus closures in the United States: American student perceptions of forced transition to remote learning. *Social sciences*, 10(2), 62.
- Pucciarelli, F., & Kaplan, A. (2016). Competition and strategy in higher education: Managing complexity and uncertainty. *Business horizons*, 59(3), 311-320.
- Rogers, A. (2020). *Human behavior in the social environment: Perspectives on development, the life course, and macro contexts*. Routledge.
- Rzepka, A. (2025). *Evolution of Management in a Post-Pandemic World: The Chameleon Paradigm*. Taylor & Francis.

- Singh, J., Steele, K., & Singh, L. (2021). Combining the best of online and face-to-face learning: Hybrid and blended learning approach for COVID-19, post vaccine, & post-pandemic world. *Journal of Educational Technology Systems*, 50(2), 140-171.
- SYLVIA, N. (2019). *RECORDS PROCESSING AND ORGANISING AT MAKERERE COLLEGE SCHOOL* (Doctoral dissertation, MAKERERE UNIVERSITY).
- Thomas, P. (2017). Severe poverty as a human rights violation. In *Challenges in International Human Rights Law* (pp. 721-764). Routledge.
- Watermeyer, R., Shankar, K., Crick, T., Knight, C., McGaughey, F., Hardman, J., ...& Phelan, D. (2021). 'Pandemia': A reckoning of UK universities' corporate response to COVID-19 and its academic fallout. *British Journal of Sociology of Education*, 42(5-6), 651-666.
- Xu, D., & Xu, Y. (2020). The ambivalence about distance learning in higher education: Challenges, opportunities, and policy implications. *Higher Education: Handbook of Theory and Research: Volume 35*, 351-401.