

The Paradigm of Higher Education System in Pakistan: A Case of Covid-19 Pandemic

NIGHAT MOIN

Faculty-Management Studies Department Bahria University, Karachi, Pakistan

nihatmoin@gmail.com

UROOJ AIJAZ

Department of H&SS Bahria University, Karachi, Pakistan

uroojaijaz.bukc@bahria.edu.pk

DR. MUHAMMAD NABEEL ASHRAF

Assistant Professor – HIMS Hamdard University, Karachi, Pakistan

m.nabeelashraf@live.co.uk

ABSTRACT

The Covid can likewise also introduce unmistakable dangers to the educating force. Pakistan started new discouragement procedure; alluded to as shrewd and miniature lockdown to avoid the rapid development in COVID patients, loss of life, inadequacy, monetary rot and powerfully reaction framework to start the business in the country with graceful and light-footed tasks despite the fact that the public authority financial plans could be troubled out. This study is auditing that what the Covid-19 is meaning for the two parts of training strategies, the teachers& the students, through adjusting the virtual learning framework in Universities of Pakistan. The advanced education understudies and educators who are helping their learning through on-line classes across Pakistan instead of stopping the growing experience. The countries' instructors &learners are guessed to be acclimated with the plan of on-line schooling on one hand anyway the problems are there in particular in the vicinity of quantitative subjects on another hand. In the event that the financial framework needs to expand this procedure, there may be need to see new methods to see all sort of subject's effectively-line. The order of government through on-line instruction living being with improved digital administration, severe social distance is astonishing regarding educating and picking up during lockdown. Instructors are the pioneer and strength of the instructive endeavor. Pakistan has endeavored to set up a prepared and bothered showing force all through the pandemic.

KEYWORDS

Covid-19 Pandemic, Higher Education, Online Education System, Pakistan.

THE ECOLOGY AND VULNERABILITIES OF THE PANDEMIC

The novel corona virus, COVID-19 belongs to a coronaviridae family that first appeared in China(The Wall Street Journal, 2021).This virus is contagious and caused by SARS-CoV-2 (Hu, Guo, Zhou, & Shi, 2020). There are many controversies about the origin of the virus, however the exact origin of which is still in question (Sridhar, et al., 2021).WHO named it as COVID-19 on 11th February 2020 (WHO, 2020), alphabets of which stands for corona (CO) Virus (VI) Disease (D) and 19 is the year 2019 in which it was first identified (European Centre for Disease Prevention and Control, 2020). Near the end of 2019, Wuhan, an arising business center point of China, encountered an episode of Covid-19 (Sun, et al., 2020), which killed in excess of 1,800 individuals and contaminated in excess of 70,000 individuals during initial five days of the scourge. This pandemic has spread throughout the world (Zimmer, 2021)in no time and has badly affected the global economy even in the short-run (McKibbin & Fernando, 2020). There are as yet numerous vulnerabilities concerning how the pandemic will be controlled in Pakistan if the infection reappears. As the pandemic advances, further examinations would be expected to additionally investigate government activities to curtail the infection and its effect the nation over (Ilyas, N., Azuine, R. E., and Tamiz, A. (2020). This indemnity of disease (Novel crown or SARS-CoV-2) has been marked as a worldwide crisis by World Health Organization. In Pakistan it isn't evident if co-morbidities are the fundamental element for COVID-19 related fatalities or such fatalities are being embraced towards the virus. On 23 March, 2020, UNESCO suggested the carry out of distance school system for schools and educators can bring into play to reach out to students remotely and bound the interference of training (Kakodkar, P., Kaka, N., &Baig, M. N. (2020). With ordinary instructions outline being an expertise improvement apparatus, equipped for raising abilities and social mindfulness, educational institutions halted face to face learning system and are settling on virtual systems to carry on learning. A vast result of online scholastics is cost effective as far as actual structure. Virtual colleges in some agricultural nations are faced with the worldview of synchronizing and incorporating of online into research intended far off instruction as the following scholastic wilderness. Contrasted with western nations like United States of America where foundations offered 89% courses on the web and out of those over half offered full degree programs totally on the web, in the non-industrial nations the image was horrid with just some open colleges incompletely offering such projects before the COVID-19 lockdowns. The abrupt drenching into online scholastics and volatile participation design and contrary video online applications should be worked upon and created in agreement to scatter any Catch. In this setting Higher Education Commission (HEC) emerging from its slumber and maybe as a reaction to the drives of one university even met a gathering of Vice Chancellors.

In the non-industrial nations, access to innovation may not be rational to all and 80% understudies might stay denied of PCs and web and the essential for financially, equipment for the nation students in the farming countries perseveres. With loss of standard eye to eye

training, social capacities and social care, which are advantages of a customary construction may be inclined in a web based structure (Mumtaz, N., Saqulain, G., and Mumtaz, N. (2021).The public authority is battling on war footings to contain quickly spreading cases. Local area pledge is considered necessary on actual note. A country like China is a model and example of overcoming adversity. In Pakistan powerful actions by the public authority and significant advances should be in use at the extraordinary level with the objective that the wide-ranging population can ensure themselves. The nation can confront an immense failure if specialists don't act shrewdly. The territories of Sindh and Punjab are under finished lock down after abrupt expansions in numbers, with the military called to check the emergency. People in general have been encouraged to run through social removing and hand cleanliness regularly. Numerous private workplaces have set up the convention of telecommuting for their representatives. Being the first and most exceedingly terrible affected region, the Sindh Government acted carefully with ideal inconvenience of health related crisis and hazard moderation gauges alongside extraordinary public mindfulness drives. They were followed through on 28 February 2020 and were transported off their specific regions. The normal government close by the Directorate of Central Health Establishments' (DOCHE) place of assembly for point of areas in Pakistan is dealing with the screening assignments. Various countries that constrained all out lockdowns had more significant salary per capita than Pakistan. Keep the economy above water with the need of protecting people from the pandemic. To debilitate the monetary impact of the ongoing eruption, the public authority has decided to report an exhaustive financial course of action offering security and impulses to adventures and lightening groups for the vulnerable and poor. The Sindh government has given a loosening up of 90 days in convenience of administration bills under 5000 Rupees.

REORGANIZATION OF EDUCATION SYSTEM IN PANDEMIC ERA

Pakistan's general literacy rate stays at 59 %, with the education pace of males at 71 % and female's at 49%. Low proficiency rates and an overall absence of mindfulness has prompted individuals not being not kidding towards the reception of hazard moderation estimates like social removing, and the wellbeing looking for practices of everyone are mosaic. Genuine actions are needed to build the mindfulness level of people in general, particularly in country regions, to endeavor against fantasies and odd notions related with wellbeing looking for conduct and the non-genuine disposition of the overall population in regards to the seriousness of COVID-19 and its careful steps.

According to HEC a LMS is required which is comprised of CMS in order to provide students various types of stuff like lectures, documents, links, eBooks etc to students learning through virtual system. In addition to this, various facilities are set to use as tools for discussions, chat, assessments, and quizzes online and electronically for uninterrupted learning process plus offline availability to review, download, and get access to the recorded lectures, and submit assignments. While using online streaming the management & faculty used the features of the online video lecture streaming with flawless continuity by the options use of mute and allow only in case of ant queries raised by any of students attending classes. But 70 public sector universities have highlighted that they do not presently have an LMS and 40 public sector universities have highlighted that they have an LMS. A small amount of

Universities including have an LMS and are using third-party video conferencing solutions like Zoom, WebEx etc.

University Size	Services Needed	Universities without LMS	Universities with LMS (VC not included)	Universities with LMS (VC included)
Small (<5K students)	LMS	MS Teams	Existing LMS	Existing LMS
	Video Con	MS Teams	MS Teams	Existing VC
Medium (5K to 10K students)	LMS	Moodle	Existing LMS	Existing LMS
	Video Con	MS Teams	MS Teams	Existing VC
Large (>10K students)	LMS	VULMS	Existing LMS	Existing LMS
	Video Con	Adobe Connect	MS Teams	Existing VC

Table above showing the size of various universities and the details of services needed for them to go through virtual learning system. Only some degree of support from the HEC will be obtainable as the nature of changes necessary depends profoundly on the structural design of the arrangement deployed by the University. HEC recommended all Universities commence the setup of Microsoft Teams instantly, due to an on hand licensing agreement, as HEC through the active website by video tutorials in facilitating the universities about the setup of Microsoft Teams classrooms and assignments, hosting a classroom online and even live streaming arrangements for virtual large seminar/webinars and training sessions. But Universities do have the choice to use every other solutions (e.g. Zoom, WebEx, etc.), though, they ought to do so at their own expenditure. Universities set a helpdesk to respond student and faculty questions and deal with any issues encountered in the beginning of the online education plan plus a Quality Enhancement Cells (QECs) built up for internal monitoring system to guarantee that the faculty is updating content on the LMS and delivering lectures on a regular basis and in this regard, Universities recognize staff with understanding in virtual education that can help out other workforce in carrying the skill solutions used by the University. Further, Universities developed channels for communication among faculty and students through the use of social media platforms like created WhatsApp groups at the department level for Faculty. All the way through these channels, the faculty and students are well informed of the Universities' tactics, policy, and timelines for virtual teaching. The hardware requirements for online teaching depend on size of the university. A typical University of 10,000 students will call for a least amount of 12 cpus, 32GB RAM and 1.5TB of hard disk to get in progress.

Universities and Degree Awarding Institutions (DAI's) that contain well instituted and ready LMS, and have started or are equipped to commence online lectures, may maintain to do so throughout the complete Spring Semester 2020. Universities are requested to put forward real time data on syllabuses, reading supplies, lecture plans, PPTs, video lectures, and exams and quizzes, in order to validate particulars (at program level) of courses uploaded and being delivered online. HEC has established a Technical Support Committee (TSC) to broaden all essential support for the shift to online or hybrid means of learning. Universities established and guarantee protection and safety of all employees resuming the site according to

WHO/HEC COVID-19 course of action especially for faculty who may be asked to go to campus only when necessary for preparing and delivery of online courses/content, with a vision to curtail any academic loss for the students and no big gatherings are permitted on campus throughout the phase of lockdown, therefore; an amount of participants in faculty/ staff meetings or training sessions is restricted to 20 persons with due consideration of distances to be maintained between all participants at all times, and all other preventive/protective dealings are observed firmly.

In addition to this a campus is prohibited on all outside guests to universities/ DAIs and many of faculty/staff members are exempted from on campus duty or permitted to work from home. Similarly Faculty/staff more than 50 years of age, and a severe existing medical issues, like cardiovascular disease, diabetes, etc. and Faculty/staff, who are pregnant or lactating. Further, faculty/Staff with any sign of poor health or vulnerability to disease are allowed to do work from home. Staff/faculty with travel history to or residence in a country/area or region reporting local spread of COVID-19 or having get in touch with a definite or possible COVID-19 cases are directed to self-isolate themselves for two weeks, and permitted to work from home.

Many Universities segregated staff into groups, depending on the indispensable work load by set up of attending campus on a rotational base as per apparent to-do list. Supervision and monitoring method (including get in touch with and complaint registration) are instituted to promise valuable execution of the set course of action. Universities adopted full measures for safe and sound housing of enrolled overseas students, according to WHO/standard guidelines. Universities also accommodated information, through posters and brochures, to dirt free and sanitize repeatedly hen touched anything and surfaces and also on entrance at University campus or sites, and intentionally get a temperature check through thermal devices before incoming the campus and if the body temperature is usual, the faculty/staff/students are permitted to go into the campus by subsequently sanitize their hands then, otherwise they won't be allowed to go into the campus premises. Likewise the meeting spaces are set to at least 6 feet at a distance (Covid-19 Guidance, Higher Education Commission (HEC, Pakistan, 2020).

CURB THE LEARNING DISRUPTION

Analysts have presented wide examination on several parts of the suggestions on COVID-19 from a social and cultural point of view, just as a mechanical perspective. The COVID-19 pandemic has obliged various relationship to carry out broad upgrades to their run of the mill business measures. One region that has seen a huge high level change has been the overall high level training region. The finish of institutional grounds, public lockdowns and social eliminating necessities has inferred that various Information Management (IM) scholastics across the world have required. To quickly correct their ongoing appearance material over to an association sensible for online transport. A thought of the best mix of receiver and sound was likewise fundamental to guarantee that the scholastic's discourse was caught plainly, and a few partners had put resources into new webcams and lapel amplifiers. Understudies partook in this style of online conveyance, and sometimes, it appeared to be more viable than past physical in-person educating designs. For instance, when showing programming, the IM scholarly had the option to share their screen to give a live walkthrough

exhibition that the understudies could follow on their PCs, and inquire understudies to share their screens to react to issues the understudies experienced when endeavoring to finish coding works out. Before COVID-19 emergency, a significant focal point of the company's system included the reception of advanced innovations and the presentation of computerized platforms. We research how the various degrees of digitalization of firms and enterprises add to adapting to the COVID-19 emergency. One store network change that could moderate the issues looked during COVID-19 is change from the current concentrated, enormous stockroom foundation dependent on an expense streamlining model to a more decentralized production network model with additional, yet more modest, local distribution centers that are found closer to request areas.

The worldwide instruction has encountered the school terminations, yet additionally the deferrals in assessments. Common freedoms associations underscore the need to secure youngsters' ideal for training. Definitely, even when the pandemic is over, they may go to a low-pay labor in a fallen economy. The wrapping up of instruction foundations is bothered with the unfinished appraisals. Negligible expense options could be looked for while tumbling the normal appraisals. The deferment of exploration gatherings, games (interior and between college) will authorize options. Analysis is in progress to examine the choices to educate and learn at the colleges (Chandasiri, O. (2020). As shown by the Human Development Report 2019, Pakistan positions 152 out of 189 nations in the Human Development Index (HDI). Unfortunately, rather than defensive countries, Pakistan has not seen a development in fundamental schooling limit, for example, the inclination rate, and the full scale enrolment sum and guidance use. Pakistan's 57% capability rate waits way at the rear of its adjoining countries. One of the less examined spaces of online training is the need of inspiration for web based learning. In customary classes, understudies as a rule effectively partake in scholarly exercises because of their eye to eye commitment with educator and class colleagues. To guarantee a powerful and useful internet based program, understudies should not just expertise to adapt up to the quick moving on the web classes yet they likewise need to have a sound PC and mechanical abilities to gain from online talks. According to the guidelines of WHO, we currently need to change our every day exercises with COVID-19 for quite a while at any rate, which implies that instructive establishments need to configuration proper and successful substance, organize a compelling (Adnan, M., and Anwar, K. (2020).

These days, the idea of the worldwide training climate is exceptionally aggressive. In this period of advanced omnipresence, the improvement of Internet-based electronic learning, in particular web based learning is the vital focal point, all things considered (Goodman et al. 2019). All over the world nearly 290 million students have been disrupted due to pandemic lockdowns (M. Furquan; N.Moin; M.Bilal; E.Riaz, 2020). Web based learning is characterized as "the utilization of cutting edge mixed media innovation and the Internet to further develop the learning system by offering available assets and administrations, alongside far off correspondence and coordinated effort". The term web based learning can likewise be communicated as "the utilization of organization based trend setting innovations to create, embrace, convey and smooth the learning system, whenever and anyplace in the whole globe". In this computerized age, the quality training and dynamic learning through internet learning appear as key achievement factors. Thusly, in the current circumstance Pakistan is acutely keen

on embracing internet learning instruction framework at all levels, especially by pursuing the direction of other created nations. The meaning of web based learning appears as a future work interest (Willems, Farley, and Campbell, 2019). At the point when we see this current worldwide COVID-19 pestilence circumstance, all advanced education foundations and colleges working in Pakistan have moved to a significant distance web based showing stage all the while. Though, the school personnel, the stage administrators, and divisions of colleges have not completely analyzed the size of this recently scourge blast. The colossal expansion in the utilization of internet showing stage has raised serious issues for both college the executives and instructing staff. The achievement of internet learning is absolutely subject to the understudy agreeableness of this innovation. In the event that the understudy is awkward in utilizing this innovation, it can't help understudies to appropriately fill in a virtual learning framework. Online network and accessibility essentially and decidedly influenced the adequacy of internet learning (Mustafa, F., Khurshed, A., Rizvi, S. M. U., Zahid, A., and Akhtar, A. (2021). Online substance is routinely accessible and can be checked at whatever point. Online information can be gotten back to. Terminations antagonistically influence low-pay students or nation schools. The undeniable benefits of electronic mentoring still should be considered, generally considering social awkward nature and disinvestment in the space of development, structure and tutoring. Pakistan's online preparation really manages various vital issues, including secure power, strong web access, a deficiency of cutting edge devices and their expertise, and a lack of organization wellbeing data. There is no TV at home for most of students. If some do, they won't benefit from 14-16 hours of weight shedding in natural locales. HEC is essentially an admonition body in high level training and the utilization of its methodologies is fundamentally the right of the schools. Most teachers, as watchmen, are new to choices rather than course perusing instructive arrangement and endeavoring to encourage media material that protects the ability to focal point of students in the natural homeroom that they don't have any idea. The point isn't simply to give content anyway to keep students included (Mehmood, 2020).

In Pakistan, the advanced education area has an exceptional chance to profit by an expanding number of bosses seeking after preparing programs which intently match. In this novel instruction framework, the business area should participate a main role. This is one way to deal with address weakness and foster the business venture capacities of youngsters (Rehman, A. U. (2020). HEC is currently building up and carrying out online classes and e-learning across all educational instructions in Pakistan to reduce instructive misfortune. Besides, educating clinical abilities was moreover testing on the web and greater part of the members told that scope of educating strategies was too compromised in light of the fact that bed side educating, instructing procedural abilities, pragmatic exhibits, utilization of test systems and intelligent meetings were absent during pandemic. Instructor's self-viability was likewise compromised due to vulnerability with accomplishment of required learning destinations. Likewise, the understudies were deficient with regards to intrigue because of short instructional talks with no collaboration. They favored real homeroom air and said that educating face to face is superior to web based instructing. Because of insignificant educator understudy contact, absence of discipline was likewise announced (Aziz, A., Aamer, S., Khan, A. M., Sabqat, M., Sohail, M., and Majeed, F. (2020).

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