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A Study on Perception of Students' Readiness towards Online Learning During covid-19 Pandemic

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Abstract

Pandemic COVID-19 has given a significant impact and change the normal way of live whereby online learning has become the main way to teach and learn. In line with the emerging use of online learning, it is crucial to identify whether the students are ready and fit enough for online class or not. By knowing the level of readiness towards online learning, the educators can make full use of online learning in order to help the students to gain knowledge, apply the knowledge, upgrade their skills and performed well in their study. This study examines the students' perception on readiness towards the use of online learning at the university level during the COVID-19 pandemic. Student readiness of online learning can be assessed comprehensively from five main domains which consists of motivation, possession of facilities or equipment for online learning, capability to assess and use technology, usefulness of online learning and self-directed learning. For this study, the quantitative approach has been adopted and responses from 65 undergraduate students of Faculty of Education, Universiti Kebangsaan Malaysia were collected through online questionnaire. This research study was conducted during April - June 2021. Data collected were analysed using Statistical Package Social Science 23 (SPSS 23) software and presented in the form of percentages and mean scores. Main findings obtained from this study revealed that undergraduate students were ready towards the use of online learning in term of their motivation (M = 3.77), facilities (M =3.93) and technology capabilities (M = 3.92). Based on this finding, the study recommend that constant reminder and structured assignment should be given to the students in order to help them to be ready for self-directed learning and they able to improve relevant skills during online learning. Further study should be done to identify the relationship between students' readiness with their academic achievement in order to see the effectiveness of online learning during COVID-19 pandemic

Keywords: Readiness, Online Learning, COVID-19

Introduction

Education is a need in this world today, so does the technology. Recently, pandemic COVID-19 has given a significant impact and change the normal way of live including communication, health and education. Daniel (2020) mentioned that COVID-19 has change the education

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system related to curriculum, educator functions, student positions and assessments. In another report, COVID-19 has also changed the way of educating future generations and led to redefining the role of educators (Luthra, & Mackenzie, 2020). Suddenly the online learning has become widely known among educators and they are forced to use it due to the closure of schools by most governments around the world. In line with this, many efforts have been put by the universities to develop the online learning system. According to Abdul (2018), online learning is one of important aspect for future education or Education 4.0 in order to produce highly creative graduates. This will become the challenges for both educators and students to adapt and dealing with online learning.

In line with the emerging use of online learning, it is crucial to identify whether the students are ready and fit enough for online class or not. By knowing the level of readiness towards online learning, the educators can make full use of online learning in order to help the students to gain knowledge, apply the knowledge, upgrade their skills and performed well in their study. Additionally, it is believed that online learning is the ideal solution that can be opted for teaching and learning as it is more safe and sustainable during COVID-19 pandemic. Therefore, objective of the study is to identify the level of readiness toward online learning among undergraduate students in Malaysia. Five research questions are addressed in this study as follows :

- 1) What are the level of students' readiness from aspect of motivation?
- 2) What are the level of students' readiness from aspect facilities or equipment?
- 3) What are the level of students' readiness from aspect technology capabilities?
- 4) What are the level of students' readiness from aspect usefulness of online learning?
- 5) What are the level of students' readiness from aspect self-directed learning?

Literature Review

Online learning readiness during COVID-19

The concept of readiness for online learning was proposed in the Australian vocational education and training sector by Warner, Christie and Choy (1998). The term of online learning have been used interchangeably to e-learning, web-based learning, mixed learning and virtual learning (Smart & Cappel, 2006; Aminuddin et al., 2021). Kharve and Gogia (2016) defined online learning or e-learning is a process of learning by electronic means which involves the use of computer, mobile phone or other electronic devices and accessing internet.

Readiness can be operationalized as preparedness of student to respond to changes and adapt to online learning as a new way of delivering lectures/classes (Smart & Cappel, 2006). Thus it is significant to study the students' readiness towards online learning as it entails students' competence, confidence in using technological tools and the ability to participate in self-directed learning. Nganga, Waruru and Nakweya (2020) mentioned that online learning preparedness varies from one institution to the other, whereby not all the student and lecturers had been trained to participate in online learning and most students do not have device or allocation to buy internet bundles.

A study by Paechter and Maier (2010) found that Austrian students are still preferred face-toface learning to interact and learn effectively. In another study, Orton-Johnson (2009) recorded a similar result from the students in the UK where the students were more favoured to use physical text materials rather than online materials during learning. In contrast, local study by Adams, Sumintono, Mohamed and Noor (2018) found that the level of readiness of online learning in higher education institutes as learning tools are at a satisfactory level.

Recent study by Olayemi, Adamu and Olayemi (2021) investigated the readiness of one hundred and forty-eight undergraduate students' towards online learning in Nigeria revealed that majority of the respondents claimed to be conversant with online learning with a high level of readiness. Also, majority of the respondents indicated high level of ICTs skills and competencies needed for online learning. On the negative side, fear of high cost of data, poor internet services, erratic power supply, inaccessibility to online library resources and limited access to computer were the major perceived challenges to effective online learning.

The study conducted by Widodo, Wibowo and Wagiran (2020) has identified five domains regarding the readiness of online learning which are : (i) students' motivation, (ii) possession of facilities or equipment for online learning, (iii) students' ability to assess and use technology, (iv) usefulness of online learning and (v) self-directed learning during online learning.

Methodology

The study employed a descriptive survey research design. The target population of this study were all undergraduate students from Faculty of Education, Universiti Kebangsaan Malaysia. A total of 65 undergraduate student participated in this study by filling the questionnaire given. A structured questionnaire was used as the instrument for data collection. The questionnaire was adopted from previous studies by Hung et al. (2009), Akaslan & Law (2011), Cole, Shelly & Swartz (2014), Doculan (2016), Khan et al. (2020), Sharma et al. (2020), Abdillah & Musa (2021), Olayemi, Adamu & Olayemi (2021). The questionnaire consist of two parts (Part A and Part B). Part A comprises of background information of participants regarding gender, race, academic year, course of study and internet accessibility. Meanwhile, Part B consists of five domains of readiness towards online learning. Five likert scale was employed for each item ranging from 1 = Strongly Disagree (SD), 2 = Disagree (D), 3 = Neutral (N), 4 = Agree (A), 5 = Strongly Agree (SA). Table 1 shows the item for each dimensions and its references.

laple	Table 1. Five domains of readiness towards online learning				
Bil	Item	References			
Moti	Motivation for students in participating in online learning				
1	I am open to learn about new things regarding	Hung et al. (2009)			
	online learning.	Abdillah & Musa (2021)			
2	I have broad interest in ICT.	Abdillah & Musa (2021)			
3	I am positive about the use of technology in online	Abdillah & Musa (2021)			
	learning.				
4	I am able to spend significant time and energy to	Akaslan & Law (2011)			
	engage in online learning class.	Doculan (2016)			
		Abdillah & Musa (2021)			
5	I am confident to use online learning system.	Akaslan & Law (2011)			
		Cole, Shelly & Swartz (2014)			
		Khan et al. (2020)			
		Sharma et al. (2020),			
6	I am updated with the latest technology	Cole, Shelly & Swartz (2014)			
		Sharma et al. (2020)			
Facili	ties or equipment for online learning				
7	I own a device to access online learning	Akaslan & Law (2011)			
		Doculan (2016)			
		Abdillah & Musa (2021)			
		Olayemi, Adamu & Olayemi			
		(2021)			
8	I have access to necessary software installed.	Akaslan & Law (2011)			
		Doculan (2016)			
		Abdillah & Musa (2021)			
9	I have access to a printer installed.	Doculan (2016)			
10	I have access to a stable internet connection at	Akaslan & Law (2011)			
	nome.	Doculan (2016)			
		Abdillah & Musa (2021)			
		Olayemi, Adamu & Olayemi			
		(2021)			
11	I have access to a computer installed with search	Doculari (2016)			
	engines (eg. Google, Ask) and internet browsers	Akasian & Law (2011)			
10	(eg. ic, Fireiox, Google Chrome).	P_{2}			
12	I have a virus protection on my computer.	Ducuidii (2010) Olavami, Adamu & Olavami			
13	offective learning encerturity	(2021)			
Ahilii	effective learning opportunity.	(2021)			
1/I	Lam familiar with online etiquette	Doculan (2016)			
15	I know the basic functions of computer bardware	Docular (2016)			
10	components (CPII and monitor) including its				
	nerinherals like the printer speaker and mouse				
16	know how to use online learning application (og	Abdillah & Musa (2021)			
TO	: Google Classroom, Google Most, Zoom)	Abuiliali & Wusa (2021)			
17	know how to use web browsers (or Internet	Doculan (2016)			
т/	Explorer Google Chrome)				

Table 1. Five	domains	of readines	s towards	online	learning
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		Olayemi, Adamu & Olayemi (2021)
18	I know how to access an online library and other resource database.	Doculan (2016)
19	I know how to use asynchronous tools (eg.	Hung et al. (2009)
	discussion boards, chat tools).	Doculan (2016)
Opin	ion on the usefulness of online learning	· · · ·
20	Online learning would improve my learning	Akaslan & Law (2011)
	process.	Doculan (2016)
		Khan et al. (2020)
21	Online learning reduces the time I spend on	Akaslan & Law (2011)
	unproductive activities.	Cole. Shelly & Swartz (2014)
		Sharma et al. (2020)
22	Online learning saves me money I spend on	Akaslan & Law (2011)
	printed learning materials and transportation	
	cost.	
23	Online learning improves my written	Akaslan & Law (2011)
	communication and analytical thinking skills.	
24	Online class is effective in bridging the gap of	Cole, Shelly & Swartz (2014)
	missed academic period.	Sharma et al. (2020)
Self-o	directed learning during online learning	
25	I carry out my own study plan.	Hung et al. (2009)
26	I seek assistance when facing learning problems.	Hung et al. (2009)
27	I feel online learning orients my study plan.	Hung et al. (2009)
		Doculan (2016)
		Cole, Shelly & Swartz (2014)
		Sharma et al. (2020)
28	I have higher expectations for my learning	Hung et al. (2009)
	performance.	Cole. Shelly & Swartz (2014)
		Sharma et al. (2020)
29	I am able to complete my work even when there	Hung et al. (2009)
	were distraction.	Doculan (2016)
		Olavemi, Adamu & Olavemi
		(2021)
30	I am able to organize my time well so that work	Doculan (2016)
	and tasks don't build up.	Cole, Shelly & Swartz (2014)
	·	Sharma et al. (2020)
31	I repeated the online instructional materials on	Hung et al. (2009)
	the basis of my needs.	Cole, Shelly & Swartz (2014)
	,	Sharma et al. (2020)

To ensure validity of the questionnaire, face and content validity was done by two experts in the field of education that were involve in online teaching and learning during the COVID-19 pandemic. The researcher gathered the number of agreed and disagreed items to be calculated using the Cohen Kappa Agreement Level Indicator refer from Bernard and Ryan (2010). The K_f value obtained is 0.80, which indicate substantial agreement between the experts.

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In term of reliability of the instrument, the Cronbach's alpha was determined to verify the reliability of the instrument. Based from pilot study that has been conducted to 35 undergraduates students from other faculties in Universiti Kebangsaan Malaysia, the value of Cronbach Alpha obtained for domain motivation is 0.867, domain facilities or equipment is 0.935, domain ability is 0.922, domain usefulness is 0.888 and self-directed learning is 0.973. The Cronbach Alpha coefficient for overall items is 0.973 is considered strong reliability level. This means that the instrument is reliable. Table 2 shows the Cronbach Alpha value for overall and each domain.

Domains	Number of Items	Cronbach Alpha		
Motivation	6	0.867		
Facilities or	7	0.935		
equipment				
Ability	6	0.922		
Usefulness	5	0.888		
Self-directed learning	7	0.973		
Overall	31	0.973		

Table 2. Cronbach Alpha Coefficient

The questionnaire was administered to the respondents through online via Google form. The link was given to the students' representative of each course of study to be shared across all undergraduate students in Faculty of Education. Data was collected between the periods of April-June 2021. The data obtained was extracted, cleaned and transferred onto Statistical Package for Social Sciences (SPSS) version 23 for the analysis. Findings were presented using means in form of table. In interpreting the readiness of students towards online learning during COVID-19 pandemic, the researcher refers to interpretation of readiness from Aydin and Tassi (2005) as shown in Figure 1. As the choices were coded as 1, 2, 3, 4 or 5, it is suggested that the mean score of 3.40 can be identified as the expected level of readiness for online learning. It is because a five-point scale contains 4 intervals and 5 categories with the ratio 4 / 5 being equal to 0.8. Interpretation of mean score as display in Table 3 as cited from Pallant (2010).



Figure 1.	Interpretation to	measure	readiness	towards	online	learning
inguie I.	interpretation to	IIIEasure	reaumess	lowarus	onnine	icai i i ii ig

ruble 5. Mean score interpretation		
Mean score Interpretation		
1.00 - 2.33	Low	
2.24 - 3.67	Intermediate	
3.68 - 5.00	High	

Table 3. Mean score interpretation

Results & Discussion

Demography Characteristic

The demographic information obtained in this study are in terms of gender, race, academic year, course of study and internet accessibility as shown in Table 4.

By referring to the gender data, 67.7% of the respondents are female and 23.2% of them are male respondents. Most of respondents are Malay students with 89.2%, Chinese students with 1.5%, Indian students with 4.6% and Others with 4.5%. Furthermore, majority of the respondents is in academic Year 1 (63.2%), Year 2 (23.1%), Year 3 (12.3%) and Year 4 (1.5%). The largest group of respondents participated in this study are from Special Education course with 56.9%, followed by Teaching English as a Second Language course with 27.% and Sports & Recreation course with 15.4%. Lastly, 80.0% of the respondents mentioned that they have internet accessibility meanwhile 20.0% of the respondents did not have access to internet.

Demography characteristic			
Gender		Frequency	Percentage (%)
Male		21	32.3
Female	_	44	67.7
	Total	65	100
_	-	_	
Race		Frequency	Percentage
Malay		58	89.2
Chinese		1	1.5
Indian		3	4.6
Others	_	3	4.5
	Total	65	100
Academic year		Frequency	Percentage
Year 1		41	63.1
Year 2		15	23.1
Year 3		8	12.3
Year 4		1	1.5
	Total	65	100
Course of study		Frequency	Percentage
Special Education		37	56.9
Teaching English as a Second Lan	guage	18	27.7
Sports & Recreation		10	15.4
	Total	65	100
Internet accessibility		Frequency	Percentage
Yes		52	80.0
No	_	13	20.0
	Total	65	100

Table 4. Demography analysis of the respondents

Students' readiness towards online learning

In identifying the perception of students' readiness towards online learning during COVID-19 pandemic, five domains of students' readiness were investigated as proposed by previous

studies. The mean value for each domain is calculated and discussed. Table 5 displays the data for first domain, which is motivation for students to participate in an online learning.

Domain : Motivation for students in participating in online learning			
Statements	Mean (M)	Interpretation	
I am open to learn about new things regarding online	4.09	High	
learning			
I have broad interest in ICT	3.71	High	
I am positive about the use of technology in online	3.92	High	
learning			
I am able to spend significant time and energy to	3.62	Intermediate	
engage in online learning class			
I am confident to use online learning system	3.40	Intermediate	
I am updated with the latest technology	3.89	High	
Total	3.77	High	

Table 5. Mean value for domain motivation

Referring to Table 5, four items show high mean score. The respondents agreed that they are open to learn about new things regarding online learning (M = 4.09), they have broad interest in ICT (M = 3.71), they are positive about the use of technology in online learning (M = 3.92) and they are updated with the latest technology (M = 3.89). Meanwhile, there were 2 items that show intermediate mean score which are ability to spend significant time and energy to engage in online learning class (M = 3.62) and confident to use online learning system (M = 3.40). Overall mean scores obtained is M = 3.77 which indicated high mean score that reflect a good level of readiness. It can be concluded that undergraduates' students were ready and motivated to engage in online learning. This finding is consistent with the finding from Saadé et al. (2007) which stated that motivation may play an important role in online learning. This result is in contrast with the findings of Qunfei, Abdullah and Mustapha (2020) which found that online learning weakened students' motivation, in turn resulted low level of acceptance and poor learning outcomes.

Domain : Facilities or equipment for online learning			
Statements	Mean (M)	Interpretation	
I own a device to access online learning	4.12	High	
I have access to necessary software installed	3.89	High	
I have access to a printer installed	3.66	Intermediate	
I have access to a stable internet connection at home	3.62	Intermediate	
I have access to a computer installed with search	4.20	High	
engines (eg. Google, Ask) and internet browsers (eg. IE,			
Firefox, Google Chrome)			
I have a virus protection on my computer	3.77	High	
I feel internet connection strength determines our	4.22	High	
effective learning opportunity			
Total	3.93	High	

Table 6. Mean value for domain facilities or equipment

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Five items under domain facilities or equipment shows high level of mean score. The items are I own a device to access online learning (M = 4.12), I have access to necessary software installed (M = 3.89), I have access to a computer installed with search engines (eg. Google, Ask) and internet browsers (eg. IE, Firefox, Google Chrome) (M = 4.20), I have a virus protection on my computer (M = 3.77) and I feel internet connection strength determines our effective learning opportunity (M = 4.22). Meanwhile, two items with intermediate level of mean score are I have access to a printer installed (M = 3.66) and I have access to a stable internet connection at home (M = 3.62). Overall mean scores revealed high level of mean score (M = 3.93). The high mean score indicates that the respondents were ready towards online learning in regard the facilities or equipment for online learning. They have necessary equipment for online teaching such as the suitable device, software and internet connection. However, the respondents feel like they did not have stable internet connection to assist them during online learning. This finding is in agreement with study by Anwar et al. (2020) which also found that 65.8% of the respondents were having unstable Internet connection that lead to several problems while undergoing virtual classes, for instance, a glitch during online group presentations, taking a long time to submit assignments or connection error while they are sitting for online tests or exams.

Domain : Ability to use and assess technology					
Statements Mean (M) Interpretation					
I am familiar with online etiquette.	3.69	High			
I know the basic functions of computer hardware	3.78	High			
components (CPU and monitor) including its		-			
peripherals like the printer, speaker and mouse					
I know how to use online learning application (eg :	4.25	High			
Google Classroom, Google Meet, Zoom)					
I know how to use web browsers (eg. Internet	4.26	High			
Explorer, Google Chrome)					
I know how to access an online library and other	3.77	High			
resource database					
I know how to use asynchronous tools (eg. discussion	3.74	High			
boards, chat tools)					
Total	3.92	High			

Table 7. Mean value for domain ability to use and assess technology

Mean scores for all items under domain ability to use and assess technology show a high level mean score. This finding indicates that respondents were capable to use and know how to assess the technology very well. Respondents agreed that they are familiar with online etiquette with M = 3.69, they know the basic functions of computer hardware components and its peripherals with M = 3.78, they know how to use online learning application like Google Classroom, Google Meet, Zoom with M = 4.25, they know how to use web browsers with M = 3.77 and they know how to access an online library and other resource database with M = 3.77 and they know how to use asynchronous tools such as discussion board and chart tools (M = 3.74). Based from the result, having the right attitude, knowledge and basic information about the technology use during online learning may help the students to be ready to engage in online learning. This is in line with the study by Olayemi, Adamu and

Olayemi (2021) which assert that the level of students' proficiency (skills and competencies) in the use and handling the technology is vital to the success of online learning.

Domain : Usefulness of online learning				
Statements	Mean (M)	Interpretation		
Online learning would improve my learning process	3.58	Intermediate		
Online learning reduces the time I spend on	3.43	Intermediate		
unproductive activities				
Online learning saves me money I spend on printed	3.74	High		
learning materials and transportation cost				
Online learning improves my written communication	3.34	Intermediate		
and analytical thinking skills				
Online class is effective in bridging the gap of missed	3.49	Intermediate		
academic period				
Total	3.52	Intermediate		

Table 8. Mean value for domain usefulness of online learning

As shown in Table 8, only one item shows high level of mean score. The respondents stated that online learning saves the money they spend on printed learning materials and transportation cost. Meanwhile other items under domain usefulness of online learning were in intermediate level of mean scores. Overall, mean score for this domain is 3.52 shows intermediate level of readiness. This finding indicates that online learning have intermediate usefulness to the students in term of their learning process, improvement of written communication and time management. However, previous study showed that online learning able to enhance students' learning (Akaslan & Law 2011).

Table 5. Weath value for domain sen-unected learning during onme learning				
Domain : Self-directed learning during	Domain : Self-directed learning during online learning			
Statements	Mean (M)	Interpretation		
l carry out my own study plan	3.68	High		
I seek assistance when facing learning problems	3.80	High		
I feel online learning orients my study plan	3.45	Intermediate		
I have higher expectations for my learning	3.63	Intermediate		
performance				
I am able to complete my work even when there were	3.45	Intermediate		
distraction				
I am able to organize my time well so that work and	3.31	Intermediate		
tasks don't build up				
I repeated the online instructional materials on the	3.71	High		
basis of my needs				
Total	3.58	Intermediate		

Table 9. Mean value for domain self-directed learning during online learning

Table 9 illustrates the readiness level of students towards self-directed learning during online learning. Based on the analysis, three items show high level of mean score. The items are (i) I carry out my own study plan (M = 3.68), (ii) I seek assistance when facing learning problems (M = 3.80) and (iii) I repeated the online instructional materials on the basis of my needs (M = 3.71). Meanwhile other four items show intermediate level of mean score. Overall, the students feel that they are moderately ready for self-directed learning during online learning.

The students having trouble to organize their time, did not able to complete the work because of distraction, they have moderate expectation of learning performance and they need to plan their study independently. This finding is in agreement with the study by Khair Anwar et al (2020), who mentioned that the students still need more guidance and time to adapt with online learning.

Conclusion

Higher learning institutions have activated the online learning mode and postponed all outof-campus activities due to the rapid spread of COVID-19 worldwide. The shift from traditional face-to-face classes towards online learning classes is to ensure continuity of education for students as well as to ensure the safety of both educators and students. This study revealed that undergraduate students were ready towards the use of online learning in term of their motivation, facilities and technology capabilities. However, the students feel that they were moderately ready for the usefulness and self-directed learning during online learning. Based from these outcome, it is recommended that educators to use online learning because the students are ready especially they have enough facilities to help them towards online learning. Despite that, educators need to emphasize on assisting the students to complete their work by giving constant reminder and learning materials that can help them to elevate their skills.

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