International Journal of Educational Studies ISSN: 2641-533X Vol. 4, No. 3, pp. 81-94. 2021 DOI: 10.53935/2641-533x.v4i3.160 © 2021 by the authors; licensee Academic Publishing Group

Building a Scale to Measure the Psychological Effects of the COVID -19 Coronavirus on Omani University Students

•Khalifa Ahmed Humaid Al Qassabi: Assistant Professor University of Nizwa, Oman.

Rabia Al Mur Al Dhuhli: Assistant Professor University of Nizwa, Oman.

Aaisha Khalifa Ahmed Al Qassabi: Lecturer University of Nizwa, Oman

ABSTRACT: The world was surprised by the outbreak of the COVID-19 pandemic. The pandemic started in China and rapidly spread in the world. This pandemic impacted different aspects of life such as the economy, health, and social life. The study aimed to build a tool to measure the psychological effects of the corona COVID-19 pandemic on Omani university students. The sample of the scale consisted of (566) students from different Omani universities. The researcher used an electronic method to distribute the questionnaire, which was Google Drive. Fifty-nine factors were used in its initial form to measure the psychological effects of the pandemic on Omani university students. The results showed that the tool is an appropriate indication of validity and reality. They revealed the results of factor validity and face validity on a scale consisting of (45) items divided into five areas: thinking about the future, pressures resulting from the requirements of the study, restrictions of movement and communication, and concern about the disease. The study recommended that student councilors and people in charge of Omani universities can use this measure to overcome the psychological effects of the pandemic other studies to verify the applicability to other samples.

Key words: Corona, COVID-19, Pandemic effects, Validity, Reliability, Scale building.

1. Introduction

Since the beginning of the Corona pandemic, started in China and spread speedily through the world. This was accompanied by many materials and moral consequences that included all sectors of human life. In addition, this pandemic caused an increase in psychological pressure on the human dealing with it, each of the sides that concerns him and affects his life (Wang et al., 2020). Al-Adwan (2020) indicated that the effects of the procedures taken to prevent infection with the virus and to limit social communication operations generated the feeling among many that they were restricted inside their home. Which directly reflected on their mental health.

Historically, it was known that the occurrence and spread of diseases and epidemics in a wide range had their social, psychological, and economic impacts. Due to the fast spread of the COVID-19 virus, it was identified as a novel coronavirus in January 2020. It was first reported in Wuhan, China in December 2019, and in March 2020 the World Health Organization has declared COVID-19 a global pandemic.

The virus has caused global repercussions at the level of the economy, health, social, psychological, and educational levels (Huckins et al., 2020). Studies have found that students were among the groups that suffer from a higher degree of psychological anxiety about learning due to the outbreak of the pandemic. These widespread outbreaks are linked to negative mental health consequences (Yan, Cao, Leung, & Mak, 2020).



International Journal of Educational Studies

The world has taken various preventive measures, including restricting movement, quarantining at home, closing schools, and other social services. Which led to an increase in psychosocial stress, especially among students (Tadesse, Mihret, Biset, & Muluneh, 2020).

The first cases appeared in the sultanate of Oman in early March 2020. In the middle of March suddenly all schools and universities were closed and shifted to distance learning. That caused some aspects of confusion for teachers and students in terms of learning and its methods. Moreover, it also raised some questions in terms of unknown conditions and a lack of knowledge of what things would be led to. This was accompanied by decisions that limited social communication, meetings, and direct conversations between students, their teachers, and colleagues. The house is transformed into a new university campus. This came with widespread news about the disease and its description, speculation about its extent, conflicting stories about it, and the transmission of the social, economic, and psychological effects of the epidemic (Wang et al., 2020). With the global development of the COVID-19 pandemic, it was accompanied by widespread psychological problems, anxiety, depression, fears of disease, lack of certainty and clarity about its interactions and consequences (Grubic, Badovinac, & Johr, 2020).

The pandemic affected many life sectors. One of the important sectors directly affected by this pandemic is the education sector. Education related to location and attendance declined. Students are overwhelmed with challenges and pressures, including university students. Therefore, the educational institutions took quick measures to remedy the responsibilities of education to control the effects of the epidemic. They followed methodologies and methods that were introduced to control the disaster; including social distance and lack of social contact, to slow the spread of this virus (Wilder-smith & Freedman, 2020).

University students were affected by the procedures taken by countries, which affected their psychological state. Their new learning required using programs and mechanisms for learning, studying, research, and evaluation processes for what they learned. Many of them were not familiar with distance learning through educational platforms, which caused psychological pressure on the students, whether because they dealt with the events, losing their daily way of learning that they were accustomed to, losing their enjoyment of interaction in their universities, and among their colleagues, or fear of the future of their education as a result of some new educational methods that they are unfamiliar with which sometimes seem unstable in some educational institutions that change from time to time.

Higher education students in the sultanate of Oman were affected by the pandemic as were other students in the world. In Oman, students can join one of many universities. On top of those universities: Sultan Qaboos University and the University of Technology and applied sciences which include several technical and applied sciences colleges. In addition, there are several private universities and colleges such as Nizwa University, Al-Sharqiyah university the for university and Suhar university. The ministry of higher education supervises some aspects related to licensing, monitoring, and accreditation of private universities. Students join after completing the 12th grade which is considered the final level of school education to do students. The effect of COVID-19 on Oman's higher education students from not being able to attend in person at a campus, repeated lockdown, and distance learning. All those things affected the psychological health of many students which was observed by researchers when dealing with their students. Many studies showed the same observation such as Tadesse et al. (2020), Wang et al. (2020) and Huckins et al. (2020).

Thus, the pandemic affected the mental health and social well-being of university students, with the pressure it puts on them. These pressure factors are directly related to students in terms of education, profession, income, living place, and close communication with people due to social distancing (Zhang & Ma, 2020).

Intervention to help students in such circumstances requires clear knowledge of their psychological state and the effects caused by this pandemic on them. This requires the existence of scales through that clear information and data can be accessed. Then the collected information and data can be used to diagnose their needs and build counseling and educational programs for them.

1.1. Requirements to Build the Scales

The data collection stage is an important stage for every researcher. This process can only be achieved through research tools in which they collect their data, which are measurement tools or data collection tools. Those tools include scales, these scales are considered as a tool of collecting data and obtaining relevant information most validly and reliably; that validity and reliability give confidence to the information collected



International Journal of Educational Studies

through it. In addition, it provides validity to the results and their interpretation. Validity comes at the forefront of those characteristics, and it is a characteristic that is related to the quality of the scale and the decisions made from the results (Tristán & Vidal, 2007). In contrast, scales that are lacking validity have many biases, also poorly reliable scales have many random errors associated with their measurement (Coster, 2000). Ackerman (1991) mentioned the existence of an inverse correlation between statement bias and its validity. If the scale has evidence of its validity and reliability, it can be counted with confidence in collecting repeatable data, and that the results are accurate and reliable.

The process of building a scale requires direct entry into the aspects of the problem by the scale preparer to know its various aspects. Which can only be measured through its measurable parts. After collecting those parts that are called the scale's statements, it is necessary to ensure the validity of the formulation and construction. That can only be done through examination of the exact scale prepared with all its parts and statements.

The attention to the statements of the scale comes because they are the observed behavioral parts of the potential characteristic to be measured. Moreover, the strength and validity of the scale come from the strength and validity of its statements, which should be well taken care of when building the scales. Each of the statements carries a part of the characteristic, and it contributes with the other statements in the scale to form the total characteristic or the largest part of what can be measured represented by the whole scale. So, it is necessary to ensure the validity of the statements of each one separately, as the analysis of the statements is an essential step in building psychological scales. Reliability and validity scales can only be obtained through the validity and stability of its statements (Al-Omari, 2011; Anastasi, 1988; El-Sayed & El-Bahi, 2014).

The researchers reviewed the existing literature about different aspects of COVID-19 effects. Many studies such as Tadesse et al. (2020) and Huckins et al. (2020) came to a result that the most common effects of the pandemic are depression and anxiety. The pandemic also affected the academic performance of students. As per a study that aimed to reveal the impact of the COVID-19 virus on the academic performance of veterinary students by Mahdy (2020), the results showed that the pandemic had affected (96.5%) of participants with varying degrees.

In China, the epicenter of the first outbreak of the pandemic, Wang et al. (2020) conducted a study aimed at exploring the effects of covid-19 on the mental health of respondents. The results indicate that a sample of health workers showed the repetition of words indicating emotional influences such as anxiety, depression, discontent, and cognitive influences such as social risks and life satisfaction. The results also showed that the respondents are concerned about their health and the health of their families and that their psychological adjustment has decreased. Yan et al. (2020) showed similar results in a study applied on five hundred college students in China during the lockdown period. The results also showed that the negative psychological effects were due to fears of infection, frustration, boredom, insufficient supplies, and insufficient information.

In Ethiopia, Tadesse et al. (2020) conducted a study entitled the psychological effects of COVID-19 among college students in Desi Town, Amhara region. The results concluded that 77.2% of students suffer from depressive disorder, and 71.8%; and 48.5% of students suffer from anxiety and stress disorders respectively. The study revealed that levels of anxiety, stress, and depressive disorders were high, and recommended that local governments should develop effective psychological interventions for students.

Many studies explained anxiety and depression for some identified reasons. In Pakistan, Salman et al. (2020) concluded that the pandemic had a significant effect on students' mental health. The researchers also conclude that anxiety was more in individuals whose family members, acquaintances, or friends were infected. On the other hand, Huckins et al. (2020) found that anxiety and depression increase in the study samples as a result of increasing the pandemic news through the phone and by visiting websites.

1.2. Concluding Remarks

After reviewing previous studies by the two researchers, they noticed that most studies deal with the psychological and mental health effects of the COVID-19 virus on students, such as the study of Wang et al. (2020) the study of Salman et al. (2020), Yan et al. (2020) study, and Tadesse et al. (2020). Some of them also studied the academic effects of the COVID-19 coronavirus, such as Mahdy (2020). While the study of examined the effects of the COVID-19 virus on mental health. Also, a study byAl-Hakkak Jaafar's conscience (2012), and Al-Obaidi et al. (2019) focused on extracting validity and reliability and performing factor analysis.



International Journal of Educational Studies

The samples of previous studies were mostly university and college students, except for the study of Wang et al. (2020), their sample was health care and service providers. Thus, it is clear that studies confirm in many regions of the world the effect of the pandemic on university students using the descriptive survey method, and that the questionnaire is the tool of previous studies.

As for the aspects of benefiting from previous studies, the researchers confirm that these studies were the main reference for a lot of information and knowledge that they benefited from in choosing the problem, formulating it, choosing its methodology and procedures, and directing researchers towards many aspects related to the subject.

Therefore, the current study is an extension of those studies in this field and was distinguished from previous studies in its purpose, as it is a psychometric study that aims to build a tool to measure the psychological effects of the Coronavirus pandemic on Omani university students.

1.3. The Study

Several studies were conducted to confirm the effect of Coronavirus on the psychological state of university students, the studies of Mahdy (2020), Wang et al. (2020) and Salman et al. (2020). Through the interaction of researchers at the University of Nizwa and communication with colleagues at other universities in the Sultanate of Oman, they felt the need for closest to accurate knowledge about the psychological impact of the pandemic on the students of Oman's universities, which helps in diagnostics, in preparation for the development of therapeutic, indicative and preventive proposals. Where there is no scale available in Oman that measures that effect and the previous studies on the subject did not provide any measures according to the researchers' knowledge, and the old studies provide measures for conditions that may not be suitable with the new pandemic. Hence, the problem of the study is all about the need for a scale of the psychological effect of the Corona pandemic on the students of universities in Oman. This scale has acceptable degrees of validity and reliability indicators.

Previous studies about the psychological effect of the COVID-19 pandemic on higher education students were conducted for students around the world. Oman students are part of the words. So, a specifics study about Oman was needed to acknowledge the social, cultural, and environmental differences.

1.3.1. Study Questions

The current study aims to answer the following questions:

1. What are the evidence of the validity of the scale developed to discover the effects of the Coronavirus pandemic on Omani university students?

2. What are the evidence of the reliability of the scale developed to discover the effects of the Coronavirus pandemic on Omani university students?

1.3.2. Study Aims

This study aimed to build a scale with psychometric properties: validity and reliability that make it valid for measuring the psychological effects of Corona virus on university students in the Sultanate of Oman.

1.3.3. Importance of Study

The scale resulting from this study can add a tool that has acceptable indications of validity and reliability to measure the psychological effects of the Coronavirus. Also, it can help researchers and specialists in their studies and research, and counselors in Oman in diagnosing the psychological state caused by the impact of the Coronavirus on university students in the Sultanate of Oman.

1.3.4. Study Limits and its Determinations

The procedures of this study are determined chronologically by the time of the occurrence of the Coronavirus pandemic, objectively by the events of the pandemic and its psychological effects, and by a place targeting university students in the Sultanate of Oman.

1.4. Terms Definition

(CORONAVIRUS EFFECTS) on university students: The effect of the spread of the novel coronavirus disease (COVID-19) can be considered, as result of the closure of universities after the World Health



International Journal of Educational Studies

Organization declared it an epidemic and a pandemic. Because of the growing concern about the pandemic, universities in most parts of the world have postponed or canceled all forms of on-campus teaching, teaching has moved to online platforms, and as a result, a potential impact of the pandemic has emerged on the education and mental health of university students and faculty (Sahu, 2020).

It is procedurally defined by the degree that the respondent obtains on the scale used in this study on university students in Oman.

Validity means that the tool is valid to measure what it was prepared to measure, or in other words when the tool accurately measures any variable described in the study and this tool has been allocated, which is the validity of the measurement tool for what it was designed to measure (Robson, 2011). Chakrabartty (2013) indicated that validity means that there is no bias in the results.

It is defined procedurally in this study as the procedures taken logically and statistically to ascertain the relationship of the data resulting from the scale prepared with the measured characteristic.

Reliability: The extent to which the test scores are free from measurement error, which is that the measurement results are stable, consistent, and free from errors, and indicates that the degree obtained from the measurement is the true amount of the measured characteristic, and the greater the stability, the more accurate the results (Haradhan, 2017).

It is defined procedurally in this research as the procedures taken statistically to ensure the accuracy of the scale prepared in extracting the true amount of what the individual possesses of the measured characteristic.

2. Method and Procedure

2.1. Methodology

The current study relied on the descriptive approach due to its relevance to the nature of the study objectives. This approach is based on describing the studied phenomenon as it exists in reality and analyzing its components using a field survey (Melhem, 2000).

The community consists of all students in Omani universities, both public and private, who numbered (52,000).

2.2. The Study Sample

To achieve the purposes of the research, the study sample consisted of (566) male and female students, who answered the scale before analyzing it and after the apparent validity test, which produced 53 items, through Google Drive.

2.3. The Study Tool

The initial construction of the effects of Coronavirus pandemic scale on Omani university students was completed after reviewing the theoretical literature through several studies, (Abu-Ghali, Mahmoud Ataf, Abu-Mustafa, & Odeh Nazmi, 2016; Ajal, 2015; Bolasal, 2014; Momani & Naim, 2012), The World Health Organization (2015), and the United Nations (2015). Several statements that measure the intended characteristic were derived, which amounted to (59) statements, then the scale was presented with its 59 statements to 6 arbitrators of experts and specialists from the University of Nizwa and Sultan Qaboos University test the apparent validity. After that, six statements were deleted based on the opinion of the arbitrators and their claim that they are repeated with other statements, so the scale was taken out with 53 statements that were presented to five students to note the extent of its readability, clarity, and their reactions to it, and the wording of some items was modified. Then the scale was applied to the sample consisting of 566 male and female students from universities, and after the application and extracting the psychometric properties of the scale and its statements came out with a scale of (45) statements

2.4. Scale Correction Standard

The alternative answers were given scores (5 = very high, 4 = high, 3 = don't know, 2 = low, 1 = very low), so that a high score indicates a high level of effectiveness of the pandemic, a low score indicates a low effect of the pandemic and a score of 3 indicates to the average effect of the pandemic. The scale is also judges on the high, low, or medium degree by examining the averages and standard deviations and finding a t-test for one sample with a hypothetical mean of 3.



International Journal of Educational Studies

2.5. Application Procedures

The scale is built according to the following procedures:

1. Make sure to build the largest possible number of statements, which reached 49 statements.

2. Extracting the apparent validity of the scale and its statements resulted in 53 statements remaining from the scale.

3. An examination of the readability and clarity of the statements for the target audience was presented to 5 students.

4. The data were analyzed after applying the scale to 566 male and female students from Omani universities, and the psychometric characteristics of the scale and statements were extracted. The result was a scale consisting of 45 statements.

2.6. Statistical Processors

After the researchers unloaded the collected data, they were processed statistically using the Statistical Package (SPSS) program, to answer the study questions as follows:

To answer the first question, the following analyzes were carried out:

Exploratory Factor Analysis to find out the factors to which the statements can be classified and their saturation levels.

The corrected correlation coefficient between the statement and the domain to which it belongs after deleting the statement to determine the validity of the statement.

To answer the second question related to the significance of the scale reliability, it was done:

Extracting Cranach's alpha coefficient to calculate the Internal Consistency Coefficient, at the level of the domains resulting from the factor analysis and the level of the scale as a whole.

The statements reliability index was derived by multiplying its correlation coefficient with the domain to which it belongs in its standard deviation.

To answer the first question, which states: What is the evidence of the validity of the developed scale to detect the effects of Corona Virus pandemic on Omani university students?

3. Study Results and Discussion

To answer this question, several indications of validity were verified, represented by: apparent validity, factorial validity, statement validity, and peripheral comparison as follows:

3.1. Virtual Validity

The validity of the scale was verified by arbitration by presenting it in its initial form of (59) statements to six arbitrators with expertise and competence; To judge the statements of the scale in terms of formulation and belonging to its fields. This resulted in a review of the statements scale, so the wording of a number of them was modified and (6) statements were deleted, so that the scale became (53) statements. To ensure the readability of the statements for the students, it was presented to five students who are available under the pandemic, to review the clarity of the statements for the examinees, and then the wording of some of the statements was reviewed.



3.2. Factorial Validity

The factor analysis was performed on the statements of the psychological effects of the corona pandemic scale on Omani university students (53) statements, and the coefficient of determination was (DETERMINANT = 1.841E-1), which is greater than zero, and the Kaser-Mayer-Olkin KMO coefficient was 0.958 with a statistical significance

= 0.000, which is greater than 0.5. The matrix of correlations between statements showed that there is a large group of correlations between variables greater than 0.30, and the one-dimensionality of the scale was examined where it appeared that the first factor alone explains (20.5%), which allows performing factor analysis on the scale and its statements to fit the data for the model. The factors were extracted by the Principal Component Analysis method, by using the criterion of latent roots values (EIGENVALUES) for the factor greater than one, and the saturation criterion for the statement with the factor greater than or equal to (0.40). The preliminary analysis resulted in getting nine factors, but it is not meaningful because either there



Ar Qussub Funding: This study received no specific financial support. Article History: Received: 2 September 2021 Revised: 5 October 2021 Accepted: 21 October 2021 Published: 9 December 2021 © 2021 by the authors; licensee Academic Publishing Group are statements saturated in more than one factor, factors in which one statement is saturated or other statements are not saturated in any factor.

So the factors were rotated orthogonally (ORTHOGONAL) by ARIMA method X), which gave the factorial structure greater clarity that made it possible to review the saturation of the statements with their factors, as it was found that there are still some statements saturated in more than one factor and with simple differences in their saturation, presence of other statements saturated alone in only one factor, and other statements that are not saturated in any factor. So those nine statements were deleted, which are the numbers (3,4,5,6,17,18,42,43), and after deleting those statements, the re-analysis and rotation again resulted in five factors that explained the amount (61.94%) of the total variance for the statements. Table 1 shows the rounded factors matrix and the saturation of the statements with the factors.

Table-1. The matrix of rounded factors and the saturation of paragraphs with the factors to measure the effects of the corona pand	lemic
on the students of Omani universities.	

;	Statements	Saturat	tes			
		Factor one	Factor Two	Factor Three	Factor Four	Factor Five
1	I miss the social gatherings we had before				0.68	
2	corona virus pandemic I miss student gatherings in lectures and other university situations				0.75	
3	I feel upset from the restriction of my freedom of movement to move			0.75		
5	between different places			0.75		
4	I feel upset from the difficulty of visiting health centers			0.71		
5	I feel upset from the difficulty of shopping in malls and shops			0.78		
6	My quality of life has been affected by the coronavirus pandemic			0.59		
7	I'm worried about the news of the coronavirus pandemic					421
8	I feel upset from the cancellation of social events due to the coronavirus pandemic			0.70		
9	I'm afraid of being quarantined					546
10	I'm upset from the impact of the virus on social distance				0.56	
11	I feel upset from changing the way I lived before the Corona pandemic				0.65	
	I am afraid of getting the virus					626
13	I feel upset of being very careful when meeting others			0.63		
14	I am worried about my academic future as a result of the coronavirus pandemic					0.71
	I doubt from be able to graduate on time					0.71
	I feel upset from the lack of clarity about when I					
16		0.64				
17	university I feel insecure about the procedures for the future of my education	0.76				
18	I suffer from psychological pressure because of thinking about the future	0.78				
10	of my education	0.70				



International Journal of Educational Studies



My future academic aspirations conflict with the 0 0.79 Coronavirus Pandemic 0.79 Worried for my 0.68 academic future 0.68 I carl get enough information to build perceptions about my future 0.74 education 0.65 virus pandemic 0.65 1 scale corona virus pandemic 1 spend a lot of time imagining what 29 presence of the Corona 0.65 virus pandemic 1 spend alot of time imagining what 29 pandemic will be prolonged and affect the 0.73 24 I feel insecure about my school future 0.73 25 pandemic will be prolonged and affect the 0.74 future of my education 0.73 1 27 cause me difficulties in my future education 0.73 28 lam afraid that the conces of happiness with 543 29 the difficulties in my future education 0.71 28 lam afraid tof the repetition of epidemics in the 543	ī					
Coronavirus Pandemic My self-confidence is negatively affected by my 0 worled for my 0.68 academic future 0.74 I carf yet enough information to build 21 perceptions about my future 0.74 education 0.65 virus pandemic 1 1 spend a lot of time imagining what 23 my education future might turn out to be 0.73 24 I feel insecure about my school future 0.79 1 am afraid that the corona virus 25 25 pandemic will be prolonged and affect the 0.74 1 feel that the chances of happiness with 26 26 studying will diminish in the 0.67 1 arm afraid of the repetition of epidemics in the future 0.73 27 cause me difficulties in my future education 0.73 28 1 am afraid of the repetition of epidemics in the future 0.67 1 trave 1 find it hard to keep up with the change in study 0.71 methods 1 arm string 0.56 lead to difficulties in my studies 0.56 0.64 pandemic 0.56		10	My future academic aspirations conflict with the			
My self-confidence is negatively affected by my 0.68 academic future 0.68 I can't get enough information to build 0.74 education 0.74 education 0.74 education 0.65 virus pandemic 0.65 irus pandemic 0.65 irus pandemic 0.73 21 feel insecure about my school future 0.79 Iam afraid that the corona virus 0.74 pandemic will be prolonged and affect the 0.74 future of my education 0.73 21 are afraid that the corona virus 0.67 22 resence difficulties in my future education 0.73 23 my celucation future inguinary what 0.67 future of my education 0.73 23 ma diraid of the repetition of epidemics in the 543 future 1 am afraid of the repetition of epidemics in the 543 future 1 are afraid wat the change in study 0.71 methods 1 feel inder the social and economic constraints 0.64 1 lind i thard to keep up with the change in study 0.63 1 1 upset of the weakness of the internet		19		0.79		
20 worried for my 0.68 academic future I can't get enough information to build 21 perceptions about my future 0.74 education My fear of school failure increased due to the 2 22 presence of the Corona 0.65 virus pandemic 1 spend a lot of time imagining what 2 23 my education future might urn out to be 0.73 24 I feel insecure about my school future 0.79 25 pandemic will be prolonged and affect the 0.74 future of my education 1 feel that the chances of happiness with 26 studying will diminish in the 0.67 future I am afraid of the repetition of epidemics in the future 1 expect a long period of time for existence of 1 27 the virus, which will 0.56 18 lam afraid of the velocitian deconomic constraints 1 30 I find it hard to keep up with the change in study 0.71 methods I feed weak in my ability to complete the studies 10.64 addue to the social and economic constraints 1 6.64<						
academic future 0.74 1 can't get enough information to build 21 perceptions about my future 0.74 education 0.65 virus pandemic 1 1 special of of time imagining what 23 my education future might turn out to be 0.73 24 I feel inscure about my school future 0.79 1 am afraid that the corona virus 0.67 25 pandemic will be prolonged and affect the 0.74 future of my education 1 feel that the chances of happiness with 26 studying will diminish in the 0.67 future 1 am straid of the repetition of epidemics in the 543 future 1 am afraid of the repetition of epidemics in the 543 future 1 am afraid of the repetition of epidemics in the 543 future 1 and fraid of the repetition of epidemics in the 543 future 0.56 if and i thard to keep up with the change in study 0.71 methods 1 if and i thard to keep up with the change in study 0.71 if feel weak in my						
I can't get enough information to build 21 perceptions about my future 0.74 education My fear of school failure increased due to the 22 presence of the Corona 0.65 virus pandemic 1 spend a lot of time imagining what 23 my education future might turn out to be 0.73 24 I feel insecure about my school future 0.79 1 am afraid that the corona virus 0.67 25 pandemic will be prolonged and affect the 0.74 6 studying will diminish in the 0.67 future of my education 0.73 26 studying will diminish in the 0.67 future 1 am afraid of the repetition of epidemics in the 543 future 1 am afraid of the repetition of epidemics in the 543 future 1 expect a long period of time for existence of 1 1 find it hard to kcep up with the change in study 0.71 1 methods 1 feel weak in my ability to complete the studies 0.63 load due to the social and economic constraints 0.64 apandemic 0.56 1 1 have doubts about the university's ability to 0.63 problems caused by the Corona vir		20	•	0.68		
21 perceptions about my future 0.74 education My fear of school failure increased due to the 22 presence of the Corona 0.65 virus pandemic 1 spend a lot of time imagining what 0.73 23 Irfeel inscure about my school future 0.79 13 Infeel inscure about my school future 0.74 6 studying will due prolonged and affect the 0.74 6 studying will duminish in the 0.67 7 I am afraid that the corona virus 0.67 7 future of my education 0.73 14 feel that the chances of happiness with 0.67 15 studying will diminish in the 0.67 17 rause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the future 1 aspect a long period of time for existence of 9 1 feed that the chances 0.56 lead to difficulties in my ability to complete the studies 10ad due to the social and economic constraints 31 caused by the Corona virus 0.64 pandemic 0.53 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
education My fear of school failure increased due to the 2 presence of the Corona 0.65 virus pandemic 1 13 my education future might turn out to be 0.73 24 I feel insecure about my school future 0.79 1 am afraid that the corona virus 0.67 25 pandemic will be prolonged and affect the 0.74 future of my education 1 1 feel that the chances of happiness with 0.67 26 studying will diminish in the 0.67 future 1 am afraid of the repetition of epidemics in the future 1 am afraid of the repetition of epidemics in the future 1 expect a long period of time for existence of 9 the virus, which will 0.56 lead to difficulties in my studies 0.71 1 find it hard to keep up with the change in study 0.71 methods 1 1 face the scolal and economic constraints 0.64 pandemic 0.56 1 study to the weakness of the internet 0.56 2 upset of the weakness of the internet 0.63 problems caused by the Corona virus pandemic 0.74 2 have dotth						
My fear of school failure increased due to the 22 presence of the Corona 0.65 virus pandemic 1 1 1 spend a lot of time imagining what 23 my education future might turn out to be 0.73 24 If cel insecure about my school future 0.79 1 1 am afraid that the corona virus 25 pandemic will be prolonged and affect the 0.74 future of my education 1 feel that the chances of happiness with 26 26 studying will diminish in the 0.67 0.67 future 1 am afraid of the repetition of epidemics in the 543 7 cause me difficulties in my studies 0.71 543 1 it it hard to keep up with the change in study 0.71 543 1 it it hard to keep up with the change in study 0.71 methods 1 feel weak in my ability to complete the studies 0.64 166 1 find it difficult to study online 0.63 0.63 1 find it difficult to study online 0.63 0.74 25 l have doubts about the university's ability to 0.63 <t< td=""><td></td><td>21</td><td></td><td>0.74</td><td></td><td></td></t<>		21		0.74		
22 presence of the Corona 0.65 virus pandemic Ispend a lot of time imagining what 23 my education future might turn out to be 0.73 24 I feel insecure about my school future 0.79 1 am afraid that the corona virus 0.79 25 pandemic will be prolonged and affect the 0.74 future of my education 1 feel that the chances of happiness with 26 studying will diminish in the 0.67 future I am afraid of the repetition of epidemics in the future 1 am afraid of the repetition of epidemics in the future 1 expect a long period of time for existence of 0.71 1 the virus, which will 0.56 lead to difficulties in my studies 0.71 30 1 find it hard to keep up with the change in study 0.71 methods 1 feel weak in my ability to complete the studies load due to the social and economic constraints 0.64 21 upset of the weakness of the internet 0.56 23 lupset of the weakness of the internet 0.63 yroblems caused by the Corona vi						
virus pandemicI spend a lot of time imagining what232324I feel insecure about my school future0.7324I feel insecure about my school future0.79I am afraid that the corona virus25pandemic will be prolonged and affect the 0.74future of my educationI feel that the chances of happiness with6studying will diminish in the0.67futureI am worried that the virus will7cause me difficulties in my future education0.7328I am afraid of the repetition of epidemics in thefutureI expect a long period of time for existence of29the wirus, which will0.56lead to difficulties in my studies3011find it hard to keep up with the change in study0.71methodsI feel weak in my ability to complete the studiesload due to the social and economic constraints31caused by the Corona virus0.64pandemic32131414151516171718191919191919191919191919191019<						
I spend a lot of time imagining what23my education future might turn out to be0.7324I feel insecure about my school future0.791 am afraid that the corona virus2525pandemic will be prolonged and affect the0.74future of my education0.671 feel that the chances of happiness with0.6726future0.671 am worried that the virus will0.6727cause me difficulties in my future education0.7328I am afraid of the repetition of epidemics in the future5431 expect a long period of time for existence of lead to difficulties in my studies0.5629the virus, which will ure thods0.561 find it hard to keep up with the change in study methods0.711 feel weak in my ability to complete the studies load due to the social and economic constraints0.6421upset of the weakness of the internet0.5623I find it difficulties on understanding online problems caused by the Corona virus pandemic0.6124I have difficulties on understanding online learning0.7925I have difficulties on understanding all my0.7426lessons by online learning0.7427I have difficulties on interacting with online lectures0.7828with the load of following online learning in the virus of of of online learning0.7234I feel that the eris no suitable atmosphere for studying at home I am missing effective communication with my<		22	^	0.65		
23 my education future might turn out to be 0.73 24 I feel insecure about my school future 0.79 1 and afraid that the corona virus 0.79 25 pandemic will be prolonged and affect the 0.74 future of my education 1 feel that the corona virus 26 studying will diminish in the 0.67 future 1 and worried that the virus will 0.73 27 cause mo difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the 543 future 1 expect a long period of time for existence of 0.56 29 the virus, which will 0.56 1 1 expect a long period of time for existence of 0.56 1 29 the wak in my ability to complete the studies 10ad due to the social and economic constraints 0.64 31 caused by the Corona virus 0.64 1 1 31 caused by the Corona virus pandemic 0.56 1 1 32 I find it difficulties on understanding online 0.79 1 34 <t< td=""><td></td><td></td><td>•</td><td></td><td></td><td></td></t<>			•			
24 I feel insecure about my school future 0.79 I am afraid that the corona virus 0.74 25 pandemic will be prolonged and affect the 0.74 future of my education I feel that the chances of happiness with 0.67 26 studying will diminish in the 0.67 future I am worried that the virus will 0.73 27 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the 543 future I expect a long period of time for existence of 29 29 the virus, which will 0.56 lead to difficulties in my studies 0.71 30 I find it hard to keep up with the change in study 0.71 methods I feel weak in my ability to complete the studies 0.64 pandemic 0.56 1 31 caused by the Corona virus 0.61 32 l upset of the weakness of the internet 0.56 33 l find it difficult to study online 0.79 acused by the Corona virus pandemic 0.74 34 solve the academic 0.78						
I am afraid that the corona virus 25 pandemic will be prolonged and affect the 0.74 future of my education I feel that the chances of happiness with 26 studying will diminish in the 0.67 future I am worried that the virus will 0.73 27 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the future 0.56 1 expect a long period of time for existence of 0.56 1 ead to difficulties in my studies 0.56 30 I find it hard to keep up with the change in study 0.71 methods 1 feel weak in my ability to complete the studies load due to the social and economic constraints 0.64 31 caused by the Corona virus 0.64 32 L upset of the weakness of the internet 0.56 33 I find it difficult to study online 0.73 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.74 35 I have difficulties on understanding online 0.78 learning I'm worried about not understanding all my 0.74 36 lessons by 0.74		23		0.73		
25 pandemic will be prolonged and affect the 0.74 future of my education I feel that the chances of happiness with 26 studying will diminish in the 0.67 future I am worried that the virus will 0.67 7 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the future 543 future 0.56 1 1 expect a long period of time for existence of 0.56 1 lead to difficulties in my studies 0.56 1 lead to difficulties in my studies 0.71 1 feel weak in my ability to complete the studies load due to the social and economic constraints 0.64 1 caused by the Corona virus 0.64 pandemic 0.81 1 21 lupset of the weakness of the internet 0.56 32 I upset of the weakness of up ervisity's ability to 0.63 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.74 34 solve the difficulties on interacting with online 0.78 learning 1 nave di		24	I feel insecure about my school future	0.79		
future of my educationIfeel that the chances of happiness with26557futureI am worried that the virus will27cause me difficulties in my future education0.732812912020212223242525262728282920202122232425252627282829292020202122232424252526272828292920202021212223242425262728282929202020202122232424252526262728292929202020 <td></td> <td></td> <td>I am afraid that the corona virus</td> <td></td> <td></td> <td></td>			I am afraid that the corona virus			
I feel that the chances of happiness with 26 studying will diminish in the 0.67 future I am worried that the virus will 27 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the 543 future 543 I arm afraid of the repetition of epidemics in the 543 future 0.56 lead to difficulties in my studies 0.56 lead to difficulties in my studies 0.71 methods I find i hard to keep up with the change in study 0.71 methods I feel weak in my ability to complete the studies 0.64 pandemic 0.81 1 1 31 caused by the Corona virus 0.63 problems caused by the Corona virus pandemic 0.63 solve the academic 0.63 problems caused by the Corona virus pandemic 0.79 learning 0 74 online learning 0.74 online learning 0.74 online learning 0.72 37 I have difficulties on interacting with online <td< td=""><td></td><td>25</td><td>pandemic will be prolonged and affect the</td><td>0.74</td><td></td><td></td></td<>		25	pandemic will be prolonged and affect the	0.74		
26 studying will diminish in the future 0.67 I arm worried that the virus will 0.73 27 cause me difficulties in my future education future 0.73 28 I am afraid of the repetition of epidemics in the future 543 I expect a long period of time for existence of 0.56 29 the virus, which will field the change in study methods 0.71 1 find it hard to keep up with the change in study methods 0.71 1 feel weak in my ability to complete the studies load due to the social and economic constraints 0.64 21 upset of the weakness of the internet 0.56 22 I upset of the weakness of the internet 0.56 31 fufficulties on understanding online 0.64 pandemic 0.81 0.81 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.79 15 I have difficulties on understanding online 0.74 online learning 0.74 online learning 0.72 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 0.81 <td></td> <td></td> <td>future of my education</td> <td></td> <td></td> <td></td>			future of my education			
future I am worried that the virus will 27 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the 543 future I expect a long period of time for existence of 543 29 the virus, which will 0.56 lead to difficulties in my studies 0.71 30 I find it hard to keep up with the change in study 0.71 methods I feel weak in my ability to complete the studies 0.64 pandemic 0.56 31 caused by the Corona virus 0.64 pandemic 0.63 32 I upset of the weakness of the internet 0.56 33 Iffind it difficult to study online 0.81 4 solve the academic 0.63 problems caused by the Corona virus pandemic 0.79 15 I have difficulties on understanding online 0.74 online learning I'm worried about not understanding all my 0.63 36 lessons by 0.74 online learning 0.72 1 37 I have difficulties on interacting with online 0.78			I feel that the chances of happiness with			
I am worried that the virus will0.7327cause me difficulties in my future education0.7328I am afraid of the repetition of epidemics in the future5434expect a long period of time for existence of0.5629the virus, which will0.561 eazpect a long period of time for existence of0.7129the virus, which will0.561 eazpect a long period of time for existence of0.7129the virus, which will0.561 eazpect al the virus of the observed of0.71methodsI find it hard to keep up with the change in study0.711 find it thard to keep up with the change in study0.71methodsI feel weak in my ability to complete the studies0.64pandemic0.6321I upset of the weakness of the internet0.5633I find it difficult to study online0.811have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding all my0.7436lessons by0.74online learning0.7237I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58 <td></td> <td>26</td> <td>studying will diminish in the</td> <td>0.67</td> <td></td> <td></td>		26	studying will diminish in the	0.67		
27 cause me difficulties in my future education 0.73 28 I am afraid of the repetition of epidemics in the future 543 I expect a long period of time for existence of 543 29 the virus, which will 0.56 lead to difficulties in my studies 0.71 30 I find it hard to keep up with the change in study 0.71 methods 1 feel weak in my ability to complete the studies 0.64 pandemic 0.56 31 caused by the Corona virus 0.64 pandemic 0.81 1 have doubts about the university's ability to 0.81 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.63 35 I have difficulties on understanding online 0.79 learning 0 0.74 online learning 0.72 0.71 37 I have difficulties on interacting with online 0.78 lectures 10st enjoyment and entertainment 0.72 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for studyin			future			
28 I am afraid of the repetition of epidemics in the future 543 1 expect a long period of time for existence of 0.56 1 the virus, which will 0.56 1 lead to difficulties in my studies 0.71 30 I find it hard to keep up with the change in study 0.71 methods I feel weak in my ability to complete the studies 0.64 pandemic 0.56 31 caused by the Corona virus 0.64 pandemic 0.51 32 I upset of the weakness of the internet 0.56 33 I find it difficult to study online 0.81 1 have doubts about the university's ability to 0.44 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.79 learning I'm worried about not understanding online 0.74 online learning 0.74 0.74 online learning 0.72 1 I eel that there is no suitable atmosphere for studying at home 0.61 1 and missing effective communication with my 0.58 0.58			I am worried that the virus will			
future I expect a long period of time for existence of 29 the virus, which will 0.56 lead to difficulties in my studies 0.71 methods 0.71 iffied it hard to keep up with the change in study 0.71 methods 0.64 load due to the social and economic constraints 0.64 pandemic 0.56 31 caused by the Corona virus 0.64 pandemic 0.56 32 I upset of the weakness of the internet 0.56 33 I find it difficult to study online 0.81 I have doubts about the university's ability to 0.63 problems caused by the Corona virus pandemic 0.79 learning 0.79 rm worried about not understanding online 0.79 learning 0.74 online learning 0.74 online learning 0.72 34 with the load of following online learning 0.72 35 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 0.72 35 I feel that there is no		27		0.73		
I expect a long period of time for existence of29the virus, which will0.56lead to difficulties in my studies0.7130I find it hard to keep up with the change in study0.71methods0.71I feel weak in my ability to complete the studies0.64pandemic0.6420I upset of the weakness of the internet0.5631I find it difficult to study online0.811have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learning0.74online learning0.74online learning0.78lectures1 lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home0.6140teachers0.58		28	I am afraid of the repetition of epidemics in the			543
29the virus, which will0.56lead to difficulties in my studies0.7130I find it hard to keep up with the change in study0.71methodsI feel weak in my ability to complete the studies0.64load due to the social and economic constraints0.64pandemic0.8131caused by the Corona virus0.63pandemic0.6332I upset of the weakness of the internet0.63optote the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.7237I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58			future			
lead to difficulties in my studies30I find it hard to keep up with the change in study methods I feel weak in my ability to complete the studies load due to the social and economic constraints0.7131caused by the Corona virus0.64pandemic0.5632I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learning I'm worried about not understanding all my0.7436lessons by0.74online learning0.7237I have difficulties on interacting with online lectures I lost enjoyment and entertainment0.7238with the load of following online learning I am missing effective communication with my0.58			I expect a long period of time for existence of			
30 I find it hard to keep up with the change in study methods 0.71 1 feel weak in my ability to complete the studies load due to the social and economic constraints 0.64 31 caused by the Corona virus 0.64 pandemic 0.56 32 I upset of the weakness of the internet 0.56 33 I find it difficult to study online 0.81 I have doubts about the university's ability to 0.63 34 solve the academic 0.63 problems caused by the Corona virus pandemic 0.79 15 I have difficulties on understanding online 0.79 learning 0.74 online learning 0.74 online learning 0.72 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 0.72 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for studying at home 0.61 40 teachers 0.58		29	the virus, which will	0.56		
methodsI feel weak in my ability to complete the studies load due to the social and economic constraints31caused by the Corona virus0.64 pandemic32I upset of the weakness of the internet0.5633I find it difficult to study online0.81 I have doubts about the university's ability to34solve the academic0.63 problems caused by the Corona virus pandemic35I have difficulties on understanding online learning I'm worried about not understanding all my36lessons by online learning37I have difficulties on interacting with online lectures I lost enjoyment and entertainment38with the load of following online learning I am missing effective communication with my40teachers0.58			lead to difficulties in my studies			
I feel weak in my ability to complete the studies load due to the social and economic constraints31caused by the Corona virus0.64pandemic0.5632I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.5635I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.7210st enjoyment and entertainment0.7238with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58		30	I find it hard to keep up with the change in study		0.71	
load due to the social and economic constraints31caused by the Corona virus0.64pandemic0.5632I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.78I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58			methods			
31caused by the Corona virus0.64pandemic0.5632I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.79learning0.79I have difficulties on understanding online0.79learning0.74online learning0.7437I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58			I feel weak in my ability to complete the studies			
pandemic32I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.78I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58			load due to the social and economic constraints			
32I upset of the weakness of the internet0.5633I find it difficult to study online0.81I have doubts about the university's ability to0.6334solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.78I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58		31	caused by the Corona virus		0.64	
 33 I find it difficult to study online 0.81 I have doubts about the university's ability to 34 solve the academic 0.63 problems caused by the Corona virus pandemic 35 I have difficulties on understanding online 0.79 learning I'm worried about not understanding all my 36 lessons by 0.74 online learning 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my 40 teachers 0.58 			pandemic			
I have doubts about the university's ability to 34 solve the academic 0.63 problems caused by the Corona virus pandemic 35 I have difficulties on understanding online 0.79 learning I'm worried about not understanding all my 36 lessons by 0.74 online learning 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for 0.61 studying at home I am missing effective communication with my 40 teachers 0.58		32	I upset of the weakness of the internet		0.56	
34solve the academic0.63problems caused by the Corona virus pandemic0.7935I have difficulties on understanding online0.79learningI'm worried about not understanding all my0.7436lessons by0.74online learning0.7437I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment0.7238with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58		33			0.81	
problems caused by the Corona virus pandemic35I have difficulties on understanding online0.79learningI'm worried about not understanding all my36lessons by0.74online learning0.7437I have difficulties on interacting with online0.78lecturesIost enjoyment and entertainment0.7238with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58						
 35 I have difficulties on understanding online 0.79 learning I'm worried about not understanding all my 36 lessons by 0.74 online learning 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for 0.61 studying at home I am missing effective communication with my 40 teachers 		34			0.63	
 learning I'm worried about not understanding all my lessons by online learning I have difficulties on interacting with online lectures I lost enjoyment and entertainment with the load of following online learning I feel that there is no suitable atmosphere for I am missing effective communication with my teachers 			problems caused by the Corona virus pandemic			
I'm worried about not understanding all my36lessons by0.74online learning37I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment3839I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my4040404142434444454546474748494940404040404041424444454647474849494040404040404041424344444546464747484949494940404040404041424444454546464747484949494940 <td></td> <td>35</td> <td>I have difficulties on understanding online</td> <td></td> <td>0.79</td> <td></td>		35	I have difficulties on understanding online		0.79	
 36 lessons by 0.74 online learning 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for 0.61 studying at home I am missing effective communication with my 40 teachers 			learning			
online learning37I have difficulties on interacting with online0.78lecturesI lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.58			I'm worried about not understanding all my			
 37 I have difficulties on interacting with online 0.78 lectures I lost enjoyment and entertainment 38 with the load of following online learning 0.72 39 I feel that there is no suitable atmosphere for 0.61 studying at home I am missing effective communication with my 40 teachers 0.58 		36	•		0.74	
lecturesI lost enjoyment and entertainment3838with the load of following online learning391feel that there is no suitable atmosphere for studying at home I am missing effective communication with my4040teachers0.58			•			
I lost enjoyment and entertainment38with the load of following online learning0.7239I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my0.6140teachers0.58		37	I have difficulties on interacting with online		0.78	
 38 with the load of following online learning 39 I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my 40 teachers 45 0.58 						
 39 I feel that there is no suitable atmosphere for studying at home I am missing effective communication with my 40 teachers 0.58 			• •			
studying at home I am missing effective communication with my 40 teachers 0.58						
I am missing effective communication with my40teachers0.58		39			0.61	
40 teachers 0.58			• •			
due to the coronavirus pandemic		40			0.58	
	_		due to the coronavirus pandemic			



International Journal of Educational

	I miss effective communication			
41	with my colleagues because of the virus		0.47	
42	I miss the feeling of gathering with colleagues		0.69	
	in the classes			
43	I feel the need for more skills to deal with	0.74		
	distance learning			
	I find difficulty of subscribe costs			
44	to the Internet to meet the requirements of	0.55		
	distance learning			
	I feel confused from the multiplicity			
45	of ways, methods and platforms for distance	0.75		
	learning			

It is clear from Table 1 that the factor analysis produced factors whose number settled in five factors and statements, which amounted to (45) after deletion. Those factors are: The first factor explained 20.5% of the variance, it contained (15) statements whose saturation values ranged between (0.79) and (0.56), the statements of this field related to the concern directed towards the academic future, and thus it can be called the field of thinking about the academic future. The second factor explained 18.940% of the variance and included (14) statements whose saturation values ranged between (0.81) and (0.55), these statements deal with the various problems resulting from the implementation of the requirements of the current education state, hence this field can be called the pressures resulting from the requirements of the study. The third factor explained 11.432% of the variance, and contained (8) statements whose saturation values ranged between (0.78) and (0.56), its statements related to meetings, visits, and movement in general, it can be called the field of movement and communication restriction. As for the fourth factor, it explained 6.446% of the variance, and it consisted of (4) statements whose saturation values ranged between (0.75) and (0.47), the statements of this factor related to something of relief through meetings, so this field can be called In social meetings. The fifth factor explained 4.701% of the variance, and it has (4) statements whose saturation values ranged between (0.63) and (0.42), the statements of this field related to feeling some anxiety about the disease, so this field can be called anxiety about disease.

The component of this scale agrees in the existence and the quality of their psychometric properties with the previous studies conducted on the psychological impact of the COVID-19 pandemic on higher education students. Including the study of Tadesse et al. (2020), Wang et al. (2020) and Huckins et al. (2020). Through which evidence of validity and reliability are presented. This agrees with Al-Hakkak Jaafar's Conscience (2012) that it is important to use factorial analysis because of its importance in experiments. It also provides reliable data and accurate measurements for the scale and its statements (Al-Obaidi et al., 2019).

3.3. The Statements Validity

To extract the validity of the statement, the correlation coefficient was calculated between the degree of each statement and the total degree of the dimension to which it belongs after deleting the statement, and Table 2 shows the results of that.

\frown	
Academia Publishing Group	

Table-2. Correlation coefficient between the degree of each statement of the tool and the total degree of the dimension to which it belongs.

	Thinking	about the	Pressures	resulted	Movemen	nt and	l			
International Journal of Educational Studies	education	future	from	education	communi	cation	Social me	etings	Anxiety	about
Volume 4, Issue 3, pp. 81-94			requirem	ents	restriction	ns			disease	
2021 DOI: 10.53935/2641-533x.v4i3.160	Statement	Correlation	Statement	Correlation	Statement	Correlation	Statement	Correlation	Statement	Correlation
Corresponding Author: Khalifa Ahmed Humaid	number	coefficient	number	coefficient	number	coefficient	number	coefficient	number	coefficient
Al Qassabi	20	0.739	35	0.784	7	0.651	1	0.515	11	0.452
Funding: This study received no specific financial support.	21	0.684	36	0.736	8	0.643	2	0.560	13	0.655
Article History:	22	0.658	37	0.568	9	0.667	49	0.535	16	0.643
Received: 2 September 2021 Revised: 5 October 2021		0.796	38	0.837	10	0.626	50	0.699	34	0.473
Accepted: 21 October 2021 Published: 9 December 2021		0.806	39	0.638	10	0.632	20	0.077	51	01175
© 2021 by the authors; licensee Academic				0.020						

Publishing Group

25	0.795	40	0.782	14	0.615			
26	0.729	44	0.764	15	0.685			
27	0.789	45	0.776	19	0.583			
28	0.736	46	0.761					
29	0.770	47	0.681					
30	0.818	48	0.608					
31	0.802	51	0.784					
32	0.736	52	0.736					
33	0.797	53	0.568					
34	0.695	36						

It is clear from Table 2 that all statements of the scale have correlation coefficients ranged between (0.45 - 0.84), so all forty-five items can be trusted in measuring the psychological impact of the Corona pandemic on Omani university students.

3.4. Peripheral Comparison

The peripheral comparison represents one of the ways to verify the validity of the scales, and to calculate this validity, the sample scores were arranged in descending order for the scale as a whole, then it was divided into two equal groups, then 150 were selected from the upper category and 150 from the lower category, which represents 27% of the total sample size in each category, and then the discriminatory ability of the scale was examined using the "T" test for independent samples, as shown in Table 3.

Table-3. T-tes	t to show	the differ	ences betw	een the av	erages of the	two extreme		
groups on the identification of the effects of the Corona pandemic on Omani university								
students.								
Low scorer	s (n = 15	50)		High so	corers (n =)	150)		
Low scorer Total scale	s (n = 15	50)		High so	corers (n =)	150) _t value		

**Statistically significant at a level of significance less than 0.001.

Table 3 shows that there are statistically significant differences at a significance level of less than (0.001) between the average scores of the upper class and the class, and from this it can be said that the scale has a discriminatory ability between students who were affected by the Corona pandemic and those who were low affected. It is clear from the previous analyzes related to validity that the scale with its settled number of statements (45) has many indications of validity represented in the apparent validity, factorial validity, statement validity and terminal differentiation validity, which makes the scale valid and reliable to measure what was prepared for it, which is to collect information on the impact of Corona virus pandemic on Omani university students. To answer the second question, which states: What are the indications of the stability scale developed to detect the effects of the Corona Virus pandemic on Omani university students? To answer this question, Cronbach's alpha coefficient was extracted to calculate the internal consistency coefficient of the scores on each dimension and the total score of the tool, and the stability of the statements was extracted.



The whole stability of the scale and its five domains were calculated by Krumbach's alpha equation, and the table shows this.

Cable-4. Values of the stability coefficients by Cronbach's	
Dimensions	Stability Coefficients
Thinking about the education future	0.96
Pressures resulted from education	0.93
requirements	
movement and communication restrictions	0.88
Social meetings	0.77
Anxiety about disease	0.76
Total scale	0.97



International Journal of Educational Studies

Volume 4, Issue 3, pp. 81-94
2021
DOI: 10.53935/2641-533x.v4i3.160
Corresponding Author: Khalifa Ahmed Humaid
Al Qassabi
Funding: This study received no specific
financial support.
Article History:
Received: 2 September 2021
Revised: 5 October 2021
Accepted: 21 October 2021
Published: 9 December 2021
© 2021 by the authors; licensee Academic
Publishing Group

Table 4 shows that the values of the stability coefficients for the degree of dimensions ranged between (0.76 - 0.96), and the stability coefficient for the total degree on the tool was (0.97), and these values are acceptable for the purposes of these studies.

3.6. Paragraph Stability Coefficient

The item stability index was calculated by multiplying its validity coefficient by its standard deviation, (Al-Omari, 2011) quoting from ALLEN, YEN, 1986, and Table 5 shows the stability of each statement

	Table-5. Indicators of stability	of statements.		
	Statements	Correlation coefficient	Standard deviation	Statement stability index
1	I miss the social gatherings we had	0.515	0.97	0.50
	before corona virus pandemic			
2	I miss student gatherings in lectures	0.560	1.01	0.57
	and other university situations			
7	I feel upset from the restriction of my			
	freedom of movement to move between different	0.651	1.31	0.85
	places			
8	I feel upset from the difficulty of	0.643	1.22	0.79
	visiting health centers			
9	I feel upset from the difficulty of	0.667	1.24	0.83
	shopping in malls and shops			
10	My quality of life has been affected	0.626	1.11	0.70
	by the coronavirus pandemic			
11	I'm worried about the news of the	0.452	1.12	0.51
	coronavirus pandemic			
12	I feel upset from the cancellation of social events due	0.600	1.05	0.00
	to the coronavirus	0.632	1.27	0.80
	pandemic			
13	I'm afraid of being quarantined	0.655	1.23	0.81
14	I'm upset from the impact of the	0.615	1.04	0.64
1.5	virus on social distance	0.005	1 10	0.77
15	I feel upset from changing the way I	0.685	1.12	0.77
16	lived before the Corona pandemic	0 6 4 2	1.25	0.80
16 19	I am afraid of getting the virus I feel upset of being very careful	0.643 0.583	1.25 1.25	0.80 0.73
19	when meeting others	0.385	1.23	0.75
20	I am worried about my academic future as a result of			
20	the coronavirus	0.739	1.17	0.87
	pandemic	0.757	1.17	0.07
21	I doubt from be able to graduate on time	0.684	1.28	0.88
22	I feel upset from the lack of clarity	0.658	1.12	0.74
	about when I will return to university	0.000		0171
23	I feel insecure about the procedures	0.796	1.17	0.93
	for the future of my education			
24	I suffer from psychological pressure because of			
	thinking about the future	0.806	1.22	0.98
	of my education			
25	My future academic aspirations conflict with the			
	events of the	0.795	1.21	0.96
	Coronavirus Pandemic			
26	My self-confidence is negatively			
	affected by my worried for my academic future	0.729	1.34	0.98
27	I can't get enough information to build perceptions			
	about my future	0.789	1.20	0.95
	education			
28	My fear of school failure increased			
	due to the presence of the Corona virus pandemic	0.736	1.20	0.88



International Journal of Educational Studies

Volume 4, Issue 3, pp. 81-94
2021
DOI: 10.53935/2641-533x.v4i3.160
Corresponding Author: Khalifa Ahmed Humaid
Al Qassabi
Funding: This study received no specific
financial support.
Article History:
Received: 2 September 2021
Revised: 5 October 2021
Accepted: 21 October 2021
Published: 9 December 2021
© 2021 by the authors; licensee Academic
Publishing Group

29I spend a lot of time imagining what my education future might turn out to be0.7701.200.9230I feel inscarce about my school future affect the future of my education affect the future of my education0.8021.110.8931I am afraid that the corona virus pandemic will be molonged and my future education0.7361.200.8832I feel that the chances of happiness with studying will diminish in the future 0.7360.7971.180.9433I am vorried that the virus will cause me difficulties in my future education0.7971.180.9434I am afraid of the repetition of virus, which will lead to difficulties in my studies etain is study methods0.6951.180.8236I find it hard to keep up with the the social and economic constraints caused by 0.7361.190.9338I upset of the weakness of the internet0.5681.130.6439I find it difficult to aduly online earanging on the coroan virus pandemic0.7810.7334I have doubts about the university's ability to solve the academic problems caused by the Coroan virus 0.6381.140.7339I find it difficult to a understanding pandemic0.7611.220.9541I have difficulties on understanding atmost by online learning0.7641.210.9243I have difficulties on understanding atmost by online learning0.7611.290.8844I have difficulties on suitable ataro of the solution of the solu	• •				
bc30I feel insecure about my school future 0.818 1.12 0.92 31I am afraid that the corona virus pandemic will be prolonged and affect the future of my education 0.802 1.11 0.89 32I feel that the chances of happiness with studying will diminish in the future education 0.736 1.20 0.88 32I feel that the chances of happiness with studying will diminish in the future education 0.797 1.18 0.94 34I am afraid of the repetition of epidemics in the future of difficulties in my studies 0.695 1.18 0.82 35I expect a long period of time for existence of the virus, which will lead to difficulties in my studies 0.695 1.18 0.82 36I find it hard to keep up with the ue to the social and economic constraints caused by the Corona virus pandemic 0.784 1.19 0.93 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.638 1.14 0.73 41I have difficulties on understanding online learning atomic 0.764 1.22 0.95 44I mworied about not understanding online learning atomic 0.761 1.29 0.88 45I have difficulties on interacting with online learning 0.761 1.29 0.95 46I lost enjoyment and entertainment with the load of following onlin	29	I spend a lot of time imagining what my education			
30I feel insecure about my school future 0.818 1.12 0.92 31I am afraid that the corona virus pandemic will be prolonged and affect the future of my education 0.802 1.11 0.89 32I feel that the chances of happiness with studying will diminish in the future 0.736 1.20 0.88 33I am worried that the virus will cause me difficulties in my future education 0.797 1.18 0.94 34I am afraid of the repetition of epidemics in the future 0.797 1.18 0.94 35I expect a long period of time for existence of the virus, which will lead to difficulties in my studies 0.695 1.18 0.82 36I find it hard to keep up with the change in study methods 0.736 1.19 0.88 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.638 1.14 0.73 39I find i difficult to study online academic problems caused by the Corona virus 0.638 1.14 0.73 41I have difficulties on understanding online learning online lectures 0.761 1.29 0.95 44I'm worried about not understanding online learning online lectures 0.661 1.29 0.88 45I have difficulties on interacting with oundine learning 0.764 1.21 0.92 46I have studying at home tearning<		future might turn out to	0.770	1.20	0.92
31I am afraid that the corona virus pandemic will be prolonged and affect the future of my education0.8021.110.8932I feel that the chances of happiness with studying will diminsh in the future 0.7360.7361.200.8833I am worried that the virus will cause me difficulties in my future cucation0.7971.180.9434I am afraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will lead to difficulties in my studies0.6951.180.8236I find i hard to keep up with the change in study methods0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8839I find i difficult to study online academic problems caused by the Corona virus pandemic0.7821.220.9241I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7344T have difficulties on interacting with online learning0.7641.210.9243I have difficulties on interacting with online learning0.7611.190.8844Thave difficulties on interacting with online learning0.7611.200.9545I have difficulties on interacting with online learning0.7611.200.9546I lost enjoyment and entertainment with the load of following online learni		be			
31I am afraid that the corona virus pandemic will be prolonged and affect the future of my education0.8021.110.8932I feel that the chances of happiness with studying will diminsh in the future 0.7360.7361.200.8833I am worried that the virus will cause me difficulties in my future cucation0.7971.180.9434I am afraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will lead to difficulties in my studies0.6951.180.8236I find i hard to keep up with the change in study methods0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8839I find i difficult to study online academic problems caused by the Corona virus pandemic0.7821.220.9241I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7344T have difficulties on interacting with online learning0.7641.210.9243I have difficulties on interacting with online learning0.7611.190.8844Thave difficulties on interacting with online learning0.7611.200.9545I have difficulties on interacting with online learning0.7611.200.9546I lost enjoyment and entertainment with the load of following online learni	30	I feel insecure about my school future	0.818	1.12	0.92
prolonged and 0.802 1.11 0.89 21Ifeel that the chances of happiness with studying will diminsh in the future 0.736 1.20 0.88 33I am worried that the virus will cause me difficulties in my future 0.797 1.18 0.94 cducation 0.473 1.26 0.60 34I am afraid of the repetition of epidemics in the future 0.797 1.18 0.94 35I expect a long period of time for existence of the virus, which will 0.695 1.18 0.82 16If and it hard to keep up with the other way which will 0.695 1.18 0.82 36I find it hard to keep up with the other social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.638 1.14 0.73 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.638 1.14 0.73 39I find it difficult to study online academic problems caused by the Corona virus 0.638 1.14 0.73 41I have difficulties on understanding online learning at my edifficulties on interacting with the load of following online 0.764 1.29 0.88 45I have difficulties on interacting with the load of following online 0.761 1.19 0.91 46I have difficulties on interacting with the load of following online 0.761 1.29 0.88 47I feel that there is no su					
affect the future of my education321 feet that the chances of happiness with studying will diminish in the future 0.7360.7361.200.8833I am worried that the virus will cause me difficulties in my future culcuation0.7971.180.9434I am afraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will lead to difficulties in my studies0.6951.180.8236I find it hard to keep up with the the corona virus pandemic0.7841.190.9337I feed weak in my studies0.6681.190.8838I upset of the weakness of the internet academic problems caused by 0.7361.190.8839I find it difficult to study online academic problems caused by the Corona virus 0.6381.140.7339I have difficulties on understanding online learning andemic0.7641.210.9241I have difficulties on interacting with academic problems caused by the Corona virus andemic0.6811.290.8845I have difficulties on interacting with bond ine learning0.7611.190.9146I lost enjoyment and entertainment with the load of following online0.7611.190.9147I feel that there is no suitable coronavirus pandemic0.6381.220.9548I am missing offective coronavirus pandemic0.7611.190.9194I have dif	51	*	0.802	1 1 1	0.80
32I feel that the chances of happiness with studying will diminish in the future 0.736 0.736 1.20 0.88 31I am worried that the virus will cause me difficulties in my future education 0.797 1.18 0.94 34I am afraid of the repetition of epidemics in the future 0.797 1.18 0.94 34I am afraid of the repetition of epidemics in the future 0.797 1.18 0.94 35I expect a long period of time for existence of the virus, which will lead to difficulties in my studies 0.695 1.18 0.82 36I find it hard to keep up with the due to the social and economic constraints caused by due to the social and economic constraints caused by 0.736 0.736 1.19 0.88 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.658 1.14 0.73 38I upset of the weakness of the internet academic problems caused by the Corona virus 0.638 1.14 0.73 34I have difficulties on understanding online learning andemic 0.764 1.21 0.92 41I have difficulties on interacting with to noline learning 0.776 1.22 0.95 45I have difficulties on interacting with the load of following online 0.776 1.22 0.95 46I lost enjoyment and entertainment with the load of following online 0.631			0.802	1.11	0.89
with studying will diminish in the future0.7361.200.8833I am worried that the virus will cause me difficulties in my future education0.7971.180.9434I am afraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will edua to difficulties in my studies0.6951.180.8236I find it hard to keep up with the change in study methods0.7361.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8838I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9041I have doubts about the university's ability to solve the academic problems caused by the Corona virus0.6381.140.7341I have difficulties on understanding online learning pandemic0.7641.210.9243I have difficulties on interacting with0.7761.220.9544I have difficulties on interacting with0.7611.190.9145I have difficulties on interacting with0.7611.290.8846I lot enjoyment and entertainment with the load of following online0.7611.190.9147I refet that there is no suitable atmosphere for studying at home0.6311.210.7448I am missing effective co					
33I am worried that the virus will cause me difficulties in my future education0.7971.180.9434I am afraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will lead to difficulties in my studies0.6951.180.8236I find it hard to keep up with the due to the social and economic constraints caused by the Corona virus pandemic0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by the Corona virus pandemic0.5681.130.6438I upset of the weakness of the internet pandemic0.5681.130.6439I find it difficult to study online pandemic0.7821.220.9541I have dotbs about the university's ability to solve the academic problems caused by the Corona virus pandemic0.7641.210.9242I have difficulties on understanding online learning online learning0.7641.220.9543I lost enjoyment and entertainment with the load of following online learning0.7611.190.9144I'm worried about communication with orline leatnes0.5351.250.6745I last effective communication with my teachers due to the ologaues because of the virus0.6991.150.8046I lost enjoyment and entertainment with the load of following online0.5351.250.6747I fe	32				
my future education0.7971.180.9434I an fraid of the repetition of epidemics in the future0.4731.260.6035I expect a long period of time for existence of the virus, which will lead to difficulties in my studies0.6951.180.8236I find it hard to keep up with the due to the social and economic constraints caused by due to the social and economic constraints caused by 0.7360.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7360.7361.190.8838I upset of the weakness of the internet academic problems caused by the Corona virus pandemic0.6331.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7341I have difficulties on understanding pandemic0.7641.210.9243If not enjoyment and entertainment to support on the set of the learning online learning0.7611.190.9145I have difficulties on interacting with to low any possible0.6811.290.8848I am missing effective coronavirus pandemic0.6991.150.6049I niss effective communication with colleagues because of the virus0.5351.250.6750I rise seffective communication with colleagues because of the virus0.5351.250.6750I miss effective communication with colleagues in the classes<			0.736	1.20	0.88
education34I am afraid of the repetition of 0.473 1.26 0.60 epidemics in the future35I expect a long period of time for existence of the virus, which will 0.695 1.18 0.82 36I find it hard to keep up with the 0.784 1.19 0.93 change in study methods 37 I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.638 1.14 0.73 pandemic 0.764 1.21 0.92 0.95 41I have difficulties on understanding online learning 0.761 1.22 0.95 45I have difficulties on interacting with online lectures 0.761 1.19 0.91 47I feel that there is no suitable communication with my teachers due to the communication with my teachers due to the consult production with my teachers due to the consult production with my teachers due to the coloragues because of the virus 0.699 1.5 0.67 50I rise the feeling of gathering with colleagues in the classes 0.699	33	I am worried that the virus will cause me difficulties in			
34I am afraid of the repetition of 0.473 1.26 0.60 epidemics in the future35I expect a long period of time for existence of the virus, which will 0.695 1.18 0.82 lead to difficulties in my studies 0.784 1.19 0.93 36I find it hard to keep up with the change in study methods 0.784 1.19 0.93 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic pandemic 0.764 1.21 0.92 41I have difficulties on understanding online learning of law difficulties on interacting with online learning 0.764 1.21 0.92 43I host edifficulties on interacting with online learning 0.761 1.19 0.91 44I host edifficulties on interacting with online learning 0.761 1.22 0.95 45I have difficulties on suitable online learning 0.681 1.29 0.88 46I lost enjoyment and entertainment with the load of following online coronavirus pandemic 0.755 1.25 0.67 47I feel that there is no suitable atmosphere for studying at home 0.535 1.25 0.67 48I an missing effective coronav		my future	0.797	1.18	0.94
34I am afraid of the repetition of 0.473 1.26 0.60 epidemics in the future35I expect a long period of time for existence of the virus, which will 0.695 1.18 0.82 lead to difficulties in my studies 0.784 1.19 0.93 36I find it hard to keep up with the change in study methods 0.784 1.19 0.93 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic pandemic 0.764 1.21 0.92 41I have difficulties on understanding online learning of law difficulties on interacting with online learning 0.764 1.21 0.92 43I host edifficulties on interacting with online learning 0.761 1.19 0.91 44I host edifficulties on interacting with online learning 0.761 1.22 0.95 45I have difficulties on suitable online learning 0.681 1.29 0.88 46I lost enjoyment and entertainment with the load of following online coronavirus pandemic 0.755 1.25 0.67 47I feel that there is no suitable atmosphere for studying at home 0.535 1.25 0.67 48I an missing effective coronav		education			
epidemics in the future35I expect a long period of time for existence of the virus, which will 0.695 1.18 0.82 18lead to difficulties in my studies 0.784 1.19 0.93 36I find it hard to keep up with the 0.784 1.19 0.93 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 0.736 1.19 0.88 38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.638 1.14 0.73 pandemic 0.764 1.21 0.92 0.95 41I have difficulties on understanding online learning 0.764 1.21 0.92 43I'm worried about not understanding 0.776 1.22 0.95 44I'm worried about not understanding 0.764 1.21 0.92 45I have difficulties on interacting with 0.761 1.19 0.91 $earning$ 0.761 1.19 0.91 $earning0.7611.190.7447I field that there is no suitable0.6811.290.8848I am missing effectivecommunication with0.5351.250.6749I miss the feeling of gathering with0.6991.15$	34		0 473	1 26	0.60
35I expect a long period of time for existence of the virus, which will0.6951.180.8236I find it hard to keep up with the0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by0.7361.190.8838I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus0.6381.140.739I find it difficult to study online0.7761.220.9541I have difficulties on understanding online learning all my lessons by online learning0.7641.210.9243I not enjoyment and entertainment with the load of following online0.7611.190.9144I feel that there is no suitable coronavirus gat home0.6811.290.8845I fact enjoyment and entertainment with the load of following online0.7611.190.911I feel that there is no suitable coronavirus gat home0.5351.250.6748I am missing effective communication with my teachers due to the colleagues because of the virus0.5351.250.6749I miss the feeling of gathering with corleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.7361.37	51		0.175	1.20	0.00
virus, which will 0.695 1.18 0.82 lead to difficulties in my studies0.695 1.18 0.93 36I find i hard to keep up with the change in study methods0.736 1.19 0.93 37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.736 1.19 0.88 38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.638 1.14 0.73 9andemic 0.764 1.22 0.95 1.18 0.92 41I have difficulties on understanding online learning 0.764 1.21 0.92 43I'm worried about not understanding 0.776 1.22 0.95 44I'm worried about not understanding 0.776 1.22 0.95 45I have difficulties on interacting with 0.776 1.22 0.95 46I lost enjoyment and entertainment with the load of following online 0.761 1.19 0.91 47I feel that there is no suitable 0.681 1.29 0.88 48I am missing effective communication with 0.535 1.25 0.67 49I miss effective communication with 0.699 1.15 0.80 50I miss the feeling of gathering with 0.699 1.18	25				
lead to difficulties in my studies36I find it hard to keep up with the0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by0.7361.190.8837I feel weak in my ability to complete the studies load due to the social and economic constraints caused by0.7361.190.8838I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus0.6381.140.73pandemic0.7641.210.920.920.9241I have difficulties on understanding online learning0.7641.210.9243I worried about not understanding0.7641.210.9244I'm worried about not understanding0.7641.220.9545I have difficulties on interacting with0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.6811.290.88atmosphere for studying at home11.190.9148I am missing effective communication with0.5351.250.6749I miss effective communication with0.5351.250.6749I miss the feeling of gathering with0.6991.150.8050I miss the feeling of gathering with	33		0.005	1 10	0.02
36I find it hard to keep up with the change in study methods0.7841.190.9337I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8838I upset of the weakness of the internet not ind it difficult to study online pandemic0.5681.130.6438I upset of the weakness of the internet academic problems caused by the Corona virus pandemic0.6381.140.7340I have doubts about the university's ability to solve the academic pandemic0.7641.220.9541I have difficulties on understanding online learning online learning0.7641.210.9243I have difficulties on interacting with online learning0.7611.220.9544I'm worried about not understanding online learning0.7611.220.9545I have difficulties on interacting with online learning0.7611.190.9146I lost enjoyment and entertainment with the load of following online learning0.7611.190.9147I feel that there is no suitable communication with musing effective communication with my teachers due to the 0.6081.210.7449I miss the feeling of gathering with colleagues in the classes0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.93 </td <td></td> <td></td> <td>0.695</td> <td>1.18</td> <td>0.82</td>			0.695	1.18	0.82
change in study methods37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8838I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus0.6381.140.739pandemic0.7641.210.920.9241I have difficulties on understanding online learning0.7641.210.9242I'm worried about not understanding online learning0.7641.210.9243I have difficulties on interacting with ollowing online0.7611.190.9144I have difficulties on interacting with ollowing online0.7611.190.9145I have for studying at home0.6811.290.8846I ost enjoyment and entertainment with the load of following online0.6611.290.8847I feel that there is no suitable atmosphere for studying at home0.5351.250.6748I am missing effective communication with my teachers due to the 0.6081.210.7449I miss the feeling of gathering with colleagues because of the virus0.6991.150.8050I miss the feeling of gathering with colleagues in the classes0.6991.160.9351I feel the need for more skills to deal					
37I feel weak in my ability to complete the studies load due to the social and economic constraints caused by 0.7361.190.8838I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7341I have difficulties on understanding online learning all my lessons by online learning0.7641.210.9243If my corride about not understanding with online learning0.7641.210.9244I have difficulties on interacting with online learning0.7611.190.9145I have difficulties on interacting with online learning0.7611.190.9146I lost enjoyment and entertainment with the load of following online learning0.7611.190.9147I feel that there is no suitable communication with my teachers due to the 0.6081.210.7448I am missing effective communication with my teachers due to the 0.6081.210.7450I miss the feeling of gathering with colleagues because of the virus0.6391.180.9351I feel the need for more skills to deal with distance of distance learning0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.7361.370.8453I feel confused from the multiplicity0.5681.2	36		0.784	1.19	0.93
due to the social and economic constraints caused by 0.7361.190.88the Corona virus pandemic0.5681.130.6438I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic0.8371.080.9041I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding online learning0.7641.210.9245I have difficulties on interacting with online lectures0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.91earning0.6811.290.8847I feel that there is no suitable atmosphere for studying at home0.6811.290.8848I am missing effective coronavirus pandemic0.5351.250.6749I miss effective communication with colleagues because of the virus0.6991.150.8050I feel the need for more skills to deal with distance of distance learning0.7361.370.8452I find difficulty of subscribe costs to the Internet to0.7361.370.8453I feel confused from the multiplicity0.5681.270.72					
due to the social and economic constraints caused by 0.7361.190.88the Corona virus pandemic0.5681.130.6438I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic0.8371.080.9041I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding online learning0.7641.210.9245I have difficulties on interacting with online lectures0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.91earning0.6811.290.8847I feel that there is no suitable atmosphere for studying at home0.6811.290.8848I am missing effective coronavirus pandemic0.5351.250.6749I miss effective communication with colleagues because of the virus0.6991.150.8050I feel the need for more skills to deal with distance of distance learning0.7361.370.8452I find difficulty of subscribe costs to the Internet to0.7361.370.8453I feel confused from the multiplicity0.5681.270.72	37	I feel weak in my ability to complete the studies load			
the Corona virus pandemic38I upset of the weakness of the internet 0.568 1.13 0.64 39I find it difficult to study online 0.837 1.08 0.90 40I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.638 1.14 0.73 pandemic41I have difficulties on understanding online learning 0.782 1.22 0.95 44I'm worried about not understanding 0.764 1.21 0.92 all my lessons by online learning45I have difficulties on interacting with 0.776 1.22 0.95 online lectures46I lost enjoyment and entertainment with the load of following online 0.761 1.19 0.91 47I feel that there is no suitable 0.681 1.29 0.88 atmosphere for studying at home48I am missing effective communication with my teachers due to the 0.608 1.21 0.74 49I miss effective communication with my colleagues because of the virus 0.699 1.15 0.80 colleagues in the classes50I field the need for more skills to deal with distance 0.784 1.37 0.84 meet the requirements of distance learning52I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning53I feel confused from the multiplicity 0.568 1.27 0.72			0.736	1.19	0.88
38I upset of the weakness of the internet0.5681.130.6439I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7341I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding0.7641.210.92all my lessons by online learning0.7641.210.9245I have difficulties on interacting with0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.9147I feel that there is no suitable0.6811.290.88atmosphere for studying at home11.210.7448I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with colleagues because of the virus0.6991.150.8050I feel the need for more skills to deal with distance0.7841.180.93learning111.370.8452I find difficulty of subscribe costs to the Internet to 0.7361.370.8453I feel confused from the multiplicity0.5681.270.72		•			
39I find it difficult to study online0.8371.080.9040I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.6381.140.7341I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding all my lessons by online learning0.7641.210.9245I have difficulties on interacting with noline lectures0.7761.220.9546I lost enjoyment and entertainment with the load of following online learning0.6811.290.8847I feel that there is no suitable communication with my teachers due to the 0.6081.210.7448I am missing effective communication with my teachers due to the 0.6081.210.7450I miss the feeling of gathering with colleagues because of the virus0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to0.7361.370.8453I feel confused from the multiplicity0.5681.270.72	38		0 568	1 13	0.64
 40 I have doubts about the university's ability to solve the academic problems caused by the Corona virus 0.638 1.14 0.73 pandemic 41 I have difficulties on understanding online learning 0.782 1.22 0.95 44 I' m worried about not understanding 0.764 1.21 0.92 all my lessons by online learning 45 I have difficulties on interacting with 0.776 1.22 0.95 online lectures 46 I lost enjoyment and entertainment with the load of following online is no suitable 0.681 1.29 0.88 atmosphere for studying at home 48 I am missing effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 					
academic problems caused by the Corona virus 0.6381.140.73pandemic1I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding0.7641.210.92all my lessons by online learning0.7761.220.9545I have difficulties on interacting with0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.91learning0.7611.190.9147I feel that there is no suitable0.6811.290.88atmosphere for studying at home10.5351.250.6748I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with0.5351.250.67my colleagues because of the virus00.6991.150.8050I feel the need for more skills to deal with distance0.7841.180.9351I feel the need for subscribe costs to the Internet to0.7361.370.84meet the requirements of distance learning0.5681.270.72			0.857	1.08	0.90
pandemic41I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding0.7641.210.92all my lessons by online learning0.7761.220.9545I have difficulties on interacting with0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.91learning0.7611.190.9147I feel that there is no suitable0.6811.290.88atmosphere for studying at home0.7611.210.7448I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with0.5351.250.67my colleagues because of the virus00.6991.150.8050I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to0.7361.370.84meet the requirements of distance learning5581.270.72	40		0.600		
41I have difficulties on understanding online learning0.7821.220.9544I'm worried about not understanding0.7641.210.92all my lessons by online learning0.7761.220.9545I have difficulties on interacting with0.7761.220.9546I lost enjoyment and entertainment with the load of following online0.7611.190.91learning0.7611.190.9147I feel that there is no suitable0.6811.290.88atmosphere for studying at home0.6811.290.7448I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with0.5351.250.6749I miss the feeling of gathering with0.6991.150.80colleagues in the classes01.180.9350I fiel the need for more skills to deal with distance0.7841.180.9351I feel the need for more skills to deal with distance0.7361.370.84meet the requirements of distance learning0.5681.270.72			0.638	1.14	0.73
 44 I'm worried about not understanding 0.764 1.21 0.92 all my lessons by online learning 45 I have difficulties on interacting with 0.776 1.22 0.95 online lectures 46 I lost enjoyment and entertainment with the load of following online 0.761 1.19 0.91 learning 47 I feel that there is no suitable 0.681 1.29 0.88 atmosphere for studying at home 48 I am missing effective communication with my teachers due to the 0.608 1.21 0.74 coronavirus pandemic 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 		pandemic			
all my lessons by online learning45I have difficulties on interacting with online lectures0.7761.220.9546I lost enjoyment and entertainment with the load of following online learning0.7611.190.9147I feel that there is no suitable atmosphere for studying at home0.6811.290.8848I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.5681.270.72	41	I have difficulties on understanding online learning	0.782	1.22	0.95
all my lessons by online learning45I have difficulties on interacting with online lectures0.7761.220.9546I lost enjoyment and entertainment with the load of following online learning0.7611.190.9147I feel that there is no suitable atmosphere for studying at home0.6811.290.8848I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.7361.370.8453I feel confused from the multiplicity0.5681.270.72	44	I'm worried about not understanding	0.764	1.21	0.92
 45 I have difficulties on interacting with 0.776 1.22 0.95 online lectures 46 I lost enjoyment and entertainment with the load of following online 0.761 1.19 0.91 learning 47 I feel that there is no suitable 0.681 1.29 0.88 atmosphere for studying at home 48 I am missing effective communication with my teachers due to the 0.608 1.21 0.74 coronavirus pandemic 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 		•			
online lectures46I lost enjoyment and entertainment with the load of following online learning0.7611.190.9147I feel that there is no suitable atmosphere for studying at home0.6811.290.8848I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning1.370.8453I feel confused from the multiplicity0.5681.270.72	45		0 776	1.22	0.95
 46 I lost enjoyment and entertainment with the load of following online 0.761 1.19 0.91 learning 47 I feel that there is no suitable 0.681 1.29 0.88 atmosphere for studying at home 48 I am missing effective communication with my teachers due to the 0.608 1.21 0.74 coronavirus pandemic 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 	15	•	0.770	1.22	0.95
following online0.7611.190.91learning111.190.9147I feel that there is no suitable0.6811.290.88atmosphere for studying at home111.290.8848I am missing effective	16				
learning47I feel that there is no suitable0.6811.290.88atmosphere for studying at homeI am missing effective	40			1 10	0.01
 47 I feel that there is no suitable 0.681 1.29 0.88 atmosphere for studying at home 48 I am missing effective communication with my teachers due to the 0.608 1.21 0.74 coronavirus pandemic 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 		6	0.761	1.19	0.91
atmosphere for studying at home48I am missing effective communication with my teachers due to the 0.6081.210.7449I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.9352I find difficulty of subscribe costs to the Internet to0.7361.370.84meet the requirements of distance learning53I feel confused from the multiplicity0.5681.270.72					
 48 I am missing effective communication with my teachers due to the 0.608 1.21 0.74 coronavirus pandemic 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 	47		0.681	1.29	0.88
communication with my teachers due to the 0.6081.210.7449I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance learning0.741.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.7361.370.8453I feel confused from the multiplicity0.5681.270.72		atmosphere for studying at home			
coronavirus pandemic49I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance learning0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.7361.370.8453I feel confused from the multiplicity0.5681.270.72	48	I am missing effective			
coronavirus pandemic49I miss effective communication with my colleagues because of the virus0.5351.250.6750I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance learning0.7841.180.9352I find difficulty of subscribe costs to the Internet to of distance learning0.7361.370.8453I feel confused from the multiplicity0.5681.270.72		communication with my teachers due to the	0.608	1.21	0.74
 49 I miss effective communication with 0.535 1.25 0.67 my colleagues because of the virus 50 I miss the feeling of gathering with 0.699 1.15 0.80 colleagues in the classes 51 I feel the need for more skills to deal with distance 0.784 1.18 0.93 learning 52 I find difficulty of subscribe costs to the Internet to 0.736 1.37 0.84 meet the requirements of distance learning 53 I feel confused from the multiplicity 0.568 1.27 0.72 					
my colleagues because of the virus50I miss the feeling of gathering with colleagues in the classes51I feel the need for more skills to deal with distance learning52I find difficulty of subscribe costs to the Internet to meet the requirements of distance learning53I feel confused from the multiplicity53I feel confused from the multiplicity	49		0.535	1 25	0.67
50I miss the feeling of gathering with colleagues in the classes0.6991.150.8051I feel the need for more skills to deal with distance0.7841.180.93learning111.180.9352I find difficulty of subscribe costs to the Internet to0.7361.370.84meet the requirements of distance learning0.5681.270.72	ч <i>)</i>		0.555	1.23	0.07
colleagues in the classes51I feel the need for more skills to deal with distance 0.7841.180.93learning11.180.9352I find difficulty of subscribe costs to the Internet to 0.7361.370.84meet the requirements of distance learning0.5681.270.72	50		0.000	1 1 7	0.00
51I feel the need for more skills to deal with distance 0.7841.180.93learning11.180.9352I find difficulty of subscribe costs to the Internet to 0.7361.370.84meet the requirements of distance learning0.5681.270.72	50		0.699	1.15	0.80
 learning I find difficulty of subscribe costs to the Internet to 0.736 I find difficulty of subscribe costs to the Internet to 0.736 0.84 meet the requirements of distance learning I feel confused from the multiplicity 0.568 1.27 0.72 					
 52 I find difficulty of subscribe costs to the Internet to 0.736 53 I feel confused from the multiplicity 54 0.84 55 0.84 568 57 0.72 	51	I feel the need for more skills to deal with distance	0.784	1.18	0.93
meet the requirements of distance learning53I feel confused from the multiplicity0.5681.270.72		learning			
meet the requirements of distance learning53I feel confused from the multiplicity0.5681.270.72	52	I find difficulty of subscribe costs to the Internet to	0.736	1.37	0.84
of distance learning53I feel confused from the multiplicity0.5681.270.72					
53I feel confused from the multiplicity0.5681.270.72		1			
	53		0 568	1 27	0.72
or ways, methous and platforms for distance learning	55		0.500	1.27	0.72
		or ways, methous and platforms for distance learning			

Table 5 shows the stability indicators for each of the items on which the scale settled after analyzing the validity, which are (45) items. The stability indicators ranged between (0.50) and (0.98), which are indicators that make the scale valid for measuring the intended characteristic and make its results stable that contribute to know how much the respondents carry from the measured characteristic.

This agrees with what mentioned by Al-Omari (2011) and Busschaert et al. (2015). That it is important to refine the scale statements by dealing with each statement and find its reliability and validity.



International Journal of Educational Studies

4. Conclusion and a General Summary of the Results

Through the previous results, the two questions of the study were answered, and a scale with acceptable psychometric properties was built and applicable within the limits of the society in which it was codified. This scale agrees in its subject and fields with the previous studies, as some of the names of its fields were mentioned in the previous studies, Salman et al. (2020) study, Yan et al. (2020) study and Huckins et al. (2020) study.

5. Recommendations

This study aimed to build a tool to measure the psychological effects of the Corona pandemic on students of Omani universities, and from the results of the study, a set of recommendations were reached, the most important:

Benefiting from this scale by student guidance administrators and university administrators in the diagnosis process in terms of identifying the psychological effects of the Corona pandemic on Omani university students, and thus through which appropriate counseling programs can be developed to overcome the problems faced by students that have a psychological effect on them.

Although the scale is a valid psychometric tool that can be adapted for use in studies related to the psychological effects of the COVID-19 pandemic, the researchers suggest conducting other psychometric studies to ensure the scale's applicability to other samples.

References

- Abu-Ghali, Mahmoud Ataf, Abu-Mustafa, & Odeh Nazmi. (2016). Predicting professional future anxiety in the light of study satisfaction and achievement goals trends among students of psychological counseling in the College of Education at Al-Aqsa University. Al-Aqsa University Journal, Human Sciences Series, 20(1), 103-141.
- Ackerman, T. (1991). A didactic explanation of item bias, item impact, and item validity from a Multi- dimensional Perspective." In Paper presented at the annual meeting of the American Educational Research Association. Chicago: University of Illinois.
- Ajal, F. S. (2015). Future anxiety among university youth in the light of some variables. *Sebha University Journal Humanities*, 14(1), 85-105.
- Al-Adwan, D. (2020). The impact of coronavirus pandemic on mental health. Doha Institute for Graduate Studies: Retrieved from: https://www.dohainstitute.edu.qa/EN/News/Pages/Coronavirus-disease-seminar-Psychological-health.aspx.
- Al-Hakkak Jaafar's Conscience. (2012). Ideas for proof and proof towards a new vision in psychometrics and educational evaluation, Paragraphs of psychological measurements between logical and appearance analysis for expert and specialized arbitrators and between statistical and factor analysis. *Journal of Educational and Psychological Research, Educational and Psychological Research Center, University of Baghdad, 34, 332- 376.*
- Al-Obaidi, Abdul-Hassan, Abdul-Amir, Al-Qaisi, Omar, F. G., & Jassem, S. A. (2019). Building a linguistic intelligence scale for primary school students. Journal of the College of Basic Education for Educational and Human Sciences, University of Diyala(45), 237-276.
- Al-Omari, H. (2011). The effect of item order in psychological scales on the internal homogeneity of the scale and the characteristics of its items. *Damascus University Journal*, 27(3+4), 111-129.
- Anastasi, A. (1988). Psychological testing (6th ed.). New York: Macmillan.
- Bolasal, R. (2014). Future anxiety and its relationship to psychological adjustment among students who are about to graduate, A field study among a sample of third-year undergraduate and second-year master's students. Unpublished Master's Thesis. Larbi Ben M'hidi University Oum El Bouaghi: Algeria.
- Busschaert, C., De Bourdeaudhuij, I., Van Holle, V., Chastin, S. F., Cardon, G., & De Docker, K. (2015). Reliability and validity of three questionnaires measuring context-specific sedentary behaviour and associated correlates in adolescents, adults and older adults. *International Journal of Behavioral Nutrition and Physical Activity*, 12(1), 1-13.
- Chakrabartty, S. N. (2013). Best split-half and maximum reliability. IOSR Journal of Research & Method in Education, 3(1), 1-8.
- Coster, J. (2000). Scale construction notes. University of Alabama, Department of Psychology.
- El-Sayed, & El-Bahi, F. (2014). Statistical psychology and measurement of the human mind. Cairo: Arab Thought House.
- Grubic, N., Badovinac, S., & Johr. (2020). Student mental health in the midst of the COVID-19 pandemic: A call for further research and mmediate solutions. *International Journal of Social Psychiatry*.
- Haradhan, K. M. (2017). Two criteria for good measurements in research: Validity and reliability. Annals of Spiru Haret University (Vol. 17). Chittagong, Bangladesh: Premier University.
- Huckins, J. F., DaSilva, A. W., Wang, W., Hedlund, E., Rogers, C., Nepal, S. K., . . . Meyer, M. L. (2020). Mental health and behavior of college students during the early phases of the COVID-19 pandemic: Longitudinal smartphone and ecological momentary assessment study. *Journal of Medical Internet Research*, 22(6), e20185.
- Mahdy, M. A. (2020). The impact of COVID-19 pandemic on the academic performance of veterinary medical students. *Frontiers in Veterinary Science*, 7, 732.
- Melhem, S. (2000). *Find in education and science curricula psychology*. Amman: Dar Al-Maysara for Publishing, Distribution and Printing.



International Journal of Educational Studies

- Momani, & Naim. (2012). Future anxiety among college students in A-Jalil Region in light of some variables. *Jordan Journal of Educational Sciences*, 9(2), 185-173.
- Robson, C. (2011). *Real world research, a resource for users of social research methods in applied settings* (2nd ed.). John Wiley and Sons Ltd: Sussex, A.
- Sahu, P. (2020). Closure of universities due to coronavirus disease 2019 (covid-19). Impact on education and mental health of students and academic staff. *Cureus*, 12(4), 7541-7759.
- Salman, M., Asif, N., Mustafa, Z., Khan, T., Shehzad, N., Hussain, K., . . . Khan, M. (2020). *Psychological impact of covid-19 on pakistani university students and how they are coping, aculty of pharmacy*. Pakistan: The University of Lahore.
- Tadesse, A., Mihret, S., Biset, G., & Muluneh, A. (2020). Psychological impacts of covid-19 among college students in dessie town. Amhara Region.
- Tristán, A., & Vidal, R. (2007). Linear model to assess the scale's validity of a test. Online Submission.
- Wang, C., Pan, R., Wan, X., Tan, Y., Xu, L., Ho, C., & Ho, R. (2020). Immediate psychological responses and associated factors during the initial stage of the 2019 coronavirus disease (COVID-19) epidemic among the general population in China. *International Journal of Environmental Research and Public Health*, 17(5), 1729.
- Wilder-smith, A., & Freedman, D. (2020). Isolation, quarantine, and social distancing and community containment: pivotal role for old-style public health measures in the novel coronavirus (2019-nCoV) outbreak. Ethiopia; Cross-statemental Study, 1Samara University. *Journal Travel Med*, 27(2), 20- 41.
- Yan, H., Cao, H., Leung, D., & Mak, Y. (2020). The psychological impacts of a covid-19 outbreak on college students in china, a longitudinal study. Retrieved from: <u>www.mdpi.com/journal/ijerph</u>. International Journal of Environmental Research and Public Health.
- Zhang, Y., & Ma, Z. F. (2020). Impact of the COVID-19 pandemic on mental health and quality of life among local residents in Liaoning Province, China: A cross-sectional study. *International Journal of Environmental Research and Public Health*, 17(7), 2381.



Studies Volume 4, Issue 3, pp. 81-94 2021 DOI: 10.53935/2641-533x.v4i3.160 Corresponding Author: Khalifa Ahmed Humaid Al Qassabi Funding: This study received no specific financial support. Article History:

International Journal of Educational

Article History: Received: 2 September 2021 Revised: 5 October 2021 Accepted: 21 October 2021 Published: 9 December 2021 © 2021 by the authors; licensee Academic Publishing Group

| 94