Cypriot Journal of Educational Sciences



Volume 17, Issue 1, (2022) 255-267

www.cjes.eu

The problem of evaluating primary school students in the online education process

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Suggested Citation:

Izmagambetova, R., Roza, N., Kenzhekhan, M., Tursynay, B., & Raissa, K., (2022). The problem of evaluating primary school students in the online education process. *Cypriot Journal of Educational Science*.17(1), 255-267. <u>https://doi.org/10.18844/cjes.v17i1.6704</u>

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Abstract

Distant education studies carried out during the COVID-19 pandemic period are handled at different education levels and from different perspectives. The purpose of this research is to evaluate the problem of evaluation of primary school students in online education with the opinions of teachers. This research was carried out by using qualitative research methods. The study group of the research consisted of 25 classroom teachers working in various primary schools in Almaty, Kazakhstan, in the 2021-2022 academic year. A semi-structured interview form was used as a data collection tool in the research. As a result of the research, teachers stated that face-to-face education is more advantageous than distance education in the evaluation of students. The teachers categorized the problems they encountered in the field of measurement and evaluation during the distance education process as technical problems, communication problems, method problems, and student problems. They suggested technical support, communication support, choosing the appropriate method, and motivating the students as the solution to the problems.

Keywords: Distance education; evaluation; online education; teacher opinions.

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1. Introduction

It is a fact that Covid-19 has significantly affected our lives. As in every field, it has caused significant changes in the field of education from beginning to end. Since the first appearance of the disease in December 2019 (Wu & McGoogan, 2020), it has affected the whole world dramatically. The Covid-19 epidemic continues to negatively affect all aspects of life in the world. In this context, it is the first time that such a large global scale has been affected in education. In this process, educational institutions at all levels, from pre-school to higher education, were quickly closed to limit the spread of the new Coronavirus disease (COVID-19) in many countries of the world. For approximately 1.58 billion students (91.4% of enrolled students), learning activities have stopped and almost all education systems have started to use distance education solutions (ILO, 2020).

1.1. Theoretical and conceptual framework

As a quick solution to the crisis caused by the COVID-19 epidemic, educational institutions structured according to face-to-face education started to work immediately and switched to distance education to continue the courses and programs with web-based distance education instead of face-to-face education (Gewin, 2020). According to Moore and Kearsley (2005), distance education is an institutionally planned administrative arrangement where teachers and students are in different places, and which requires the use of certain technologies together with the teaching methods applied depending on the specially prepared course design. According to Holmberg (1995), distance education is a form of education in which the teacher and the student are not sided by side and carried out with various communication tools. Distance education is a form of education in which students, teachers, and teaching materials from different geographies are brought together through communication technologies (Al & Madran, 2004).

We can list some of the main features that distinguish distance education from the traditional formal education system as learning objectives, methods, content, measurement and evaluation processes, the place of distance education, when it is applied, and the fact that distance education does not have a long history compared to traditional education (Eygu & Karaman, 2013). Distance education, which is compulsory during the pandemic period, has changed the lives of all stakeholders, especially teachers, students, and parents. Academicians, teachers, students, and parents related to education tried to adapt to the "education system of the changing world" that they had not experienced before. This mandatory process brought along different difficulties (Zan & Zan, 2020).

Technology-supported learning environments have also revealed quite a different course design and requirements from traditional teaching (Valenta et al., 2001). Primary school students are among the groups that have the most difficulty in distance education due to the limitations in their cognitive, affective, and psychomotor characteristics (Szente, 2020). Since there is no direct interaction in this type of education, it can be said that especially primary school students are negatively affected. Because primary school students in the concrete operational period need to be supported emotionally and visually by using materials by communicating with their teachers (Fidan, 2008). One of the most important parts that will increase the continuity of the distance education process and the communication with the students is the feedback we will give them.

It is thought that measurement and evaluation are especially important to determine the success rate of the aims of the training and how much individuals receive from the presentation and to provide feedback to the theory (Iskenderoglu et al, 2012). For the teaching process to be carried out completely, and for the curriculum to be implemented correctly, the learning experiences should be carried out together with appropriate measurement-evaluation activities. Similarly, in curricula,

"assessment and evaluation studies should be in harmony with all components of the curriculum, and the limits of learning outcomes and explanations should be taken as a basis (Koc, 2021).

1.2. Related research

Some studies in the field; showed that long-term school closures, quarantine periods, and house arrest can have negative effects on students' physical, mental, spiritual, and psychological health (Brazendale et al., 2017). Evaluating the obstacles to distance education (Gregory & Lodge, 2015), examining student psychology during the quarantine period (Stewart, Watson & Campbell, 2018), and examining the effects of distance education on the attitudes, social relations, and communication skills of students in different education levels (Poellhuber, Anderson & Roy, 2011) studies have been carried out.

Yurtbakan and Akyıldız (2020) evaluated the views of primary school students, their parents, and classroom teachers on distance education activities in their study. As a result of the research, they determined that the students learn better because they can interact with their teachers at school and get feedback, and therefore they prefer face-to-face education at school. Hilli (2020), in his study with teachers in a primary school in a rural area, found that teachers are not sure whether students understand in distance lessons, they are afraid of losing classroom control, they have difficulties in planning due to cultural differences, and they spend serious effort and time in preparing materials and planning.

Andrisyah & Ismiatun (2021) examined the self-efficacy skills of teachers in early childhood distance education practices in this study. In the research, it was concluded that the covid-19 epidemic affected early childhood education and that educators had a hard time educating children. Considering that situations such as teacher-student, student-student, and eye contact occur in an extremely limited way in the distance education process, Riva et al. (2021), considering that primary school students need social interaction very much, it is necessary to make important arrangements to eliminate this limitation indicated that it should be done.

It is seen that distance education studies carried out during the pandemic process are handled at different education levels and from different perspectives. It is seen that the most important role in the success of the students, who are generally in the focus of the studies, in the distance education process falls on the teachers. Accordingly, in this study, teachers' views on the evaluation of primary school students, who are thought to be one of the important problems of the distance education process, in the online education process were evaluated.

1.3. Purpose of the research

The aim of this study is to evaluate the problem of evaluation of primary school students in online education with the opinions of teachers. In this direction, the following sub-objectives were established in the research.

1. What are primary school teachers' preferences for face-to-face and distance education in the evaluation of students?

2. What are the primary school teachers' views on the effectiveness of evaluating students in distance education?

3. What kind of problems did primary school teachers encounter in the field of measurement and evaluation in the distance education process?

4. What are the solution suggestions for the problems experienced in the field of measurement and evaluation in the distance education process of primary school teachers?

2. Method and Materials

In this part of the research, information about the method used in the research, the study group of the research, data collection tools, data collection process, and data analysis are given.

2.1. Research method

This research was carried out by using the qualitative research method. Qualitative research is one of the forms of knowledge production developed by people to understand their potential, to solve their secrets, and to explore the depths of the social structures and systems they have built with their efforts. In studies designed with the qualitative method, there is an effort to reach a deep perception about the event or phenomenon examined (Morgan, 1996). In this study, teachers' views on the problem of evaluating primary school students in online education were discussed.

2.2. Participants

Since the statistical analysis was not aimed at the participatory study of the research, the purposive sampling method was adopted in determining the study group. The most appropriate approach, which explains the problem in the study in detail, is to prepare environments that will facilitate in-depth research with a small group (Ritchie et al., 2003). In purposive sampling practices, criterion sampling and outlier sampling approaches, which are thought to better explain the research problem, were preferred. With criterion sampling, the basic features of the subject to be researched and the basic criteria that the researcher considers important were created. It is the creation of a different working group that is thought to contribute to the detailed explanation of the problem situation with outlier sampling (Ritchie et al., 2003). In this context, while choosing the teachers to be included in the study, the criterion was determined as having carried out distance education applications during the epidemic period. In addition, following the contrary situation pattern, it was determined that the teachers both gave face-to-face training before the epidemic and gave distance education during the epidemic period. The study group of the research consists of classroom teachers working in various primary schools in Almaty, Kazakhstan, in the 2021-2022 academic year. The teachers in the study group were chosen voluntarily. Information on the demographic characteristics of primary school teachers who voluntarily agreed to participate in the study is given in Table 1.

	,	
Gender	F	%
Female	11	44
Male	14	56
Sum	25	100
Professional experience	F	%
3-6 Years	2	8
7-10 Years	3	12
11-14 Years	13	52
15 Years and above	7	28
Sum	25	100
Class of Education	F	%
1. Class	-	-
2.Class	9	36
3.Class	6	24
4.Class	10	40
Sum	25	100

 Table 1: Demographic characteristics of primary school teachers

In Table 1, demographic information about the gender, professional experience, and class distribution of the primary school teachers participating in the research is given. Eleven (11) of the teachers participating in the research are female and 14 are male. 2 of the teachers participating in the research have 3-6 years, 3 have 7-10 years, 13 have 11-14 years and 7 have 15 years or more professional experience. While no teacher was teaching the 1st grades among the teachers participating in the research, 9 teachers teaching the 2nd grade, 6 teaching the 3rd grade, and 10 teaching the 4th grade participated in the research.

2.3. Data collection tools

A semi-structured interview form was used as a data collection tool in the research. In a semistructured interview, the interview form includes a list of questions or topics to be covered. In the interview method, the interview form is prepared to receive the same type of data from different people on similar topics (Patton, 1987). In semi-structured interviews, the questions prepared before are asked to the participants in the same way and the same order, and additional questions are provided where necessary, providing the details of the views. Care was taken to ensure that the interview questions were appropriate for the research and the answers of the participants based on their field of expertise. Before the interviews were held with the main participants, to determine the validity of the interview questions, it was presented to two faculty members who had researched in the field of distance education to get an expert opinion and necessary corrections were made. Afterward, a pilot interview was conducted with a lecturer who teaches in the classroom teaching department, and the question patterns were simplified, it was determined which probes should be used in which question, and the order of the questions was changed. As a result of the corrections made, the interview form has a structure consisting of 4 main questions. The semi-structured interview form is given below.

Table 2: Semi-structured interview form for teachers
Demographic Information:
Teacher's Gender:
Teacher's Professional Experience:
Class of Teacher Training:
Research Questions:
1. Which one do you prefer face-to-face education and distance education in the evaluation of students?
2. What are your views on the effectiveness of evaluating students in distance education?
3. What kind of problems do you encounter in the field of measurement and evaluation in the distance
education process?
4. What are your suggestions for solutions to the problems experienced in the field of measurement and
evaluation in the distance education process?

2.4. Data collection process

The teachers constituting the study group of the research were contacted through their primary schools and informed about the content and ethical principles of the research. Then, the teachers were informed that the semi-structured interview form would be sent to them by e-mail. The semi-structured interview form, which was created to collect the research data, was sent to the teachers participating in the research via e-mail, taking into account the measures of the Covid-19 pandemic process. It took approximately 2 weeks for the teachers participating in the study to deliver the semi-structured interview forms to the researchers.

2.5. Data analysis

To analyze the data of the research, the content analysis method, which is frequently used in qualitative research, was used. Since content analysis is an inductive type of analysis, it focuses on the origins of the investigated phenomenon or event. Through coding, the concepts underlying the data and the relationships between these concepts are revealed (Merriam & Grenier, 2019). The answers given by the teachers participating in the research to the questions in the semi-structured interview form were presented in the research by revealing the concepts and the relations between them through coding. The answers given by the teachers participating in the research by keeping their identity information confidential.

3. Results

This section covers the evaluation of the responses of the study group to the data collection tool.

In Table 3, the answers of primary school teachers regarding face-to-face education and distance education preferences in the evaluation of students are given.

evaluation of students	
Table 3: Opinions of teachers regarding face-to-face education and distance education preferences in	the

Theme	Teacher Opinions	F	%
	 It is much easier to measure student achievements in face-to-face education. It is possible to do this by applying exams suitable for the level of the student. 		
	- Assessment and evaluation practices can be done in a much healthier way in the classroom environment.		
	- It is exceedingly difficult to evaluate students in distance education, especially at the primary school level. That is why I find face-to-face training advantageous.		
Face to face education	- Distance education is not a suitable platform for the evaluation of learning activities of primary school students.	25	100
	- Although I think that distance education is an effective way to continue education and training activities, the most effective form of education for the evaluation process of students is face-to-face education.		
	- I think that the healthiest assessment and evaluation environment, especially for primary school students, is face-to-face education.		
Distance Learning	-	-	-
Sum		25	100

In Table 3, it is seen that all of the teachers stated that face-to-face education is more advantageous than distance education in the evaluation of students.

In Table 4, primary school teachers' views on the effectiveness of evaluating students in distance education are evaluated.

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Theme	Category	Teacher Opinions	F	%
	Very Enough	-	-	-
	Sufficient	-	-	-
		- Although it is not possible to		
		make an effective assessment		
		and evaluation in distance		
	Acceptable	education as in face-to-face		
		education, I think it is acceptable.	3	12
		- In my opinion, only so much		
		could be done under pandemic		
		conditions.		
		- Of course, it is not possible to		
		make a completely healthy		
		assessment. But in these		
c		circumstances, I find it		
tio		acceptable.		
rca		- Partially, the student's		
Edu		knowledge is tried to be		
Ce		evaluated, but I find it		
an		insufficient.		
Dist	Insufficient	- I think distance education is		
	insumolent	suitable for secondary	8	32
its		education and the above	U	52
der		groups. I find it insufficient not		
itu		only in terms of measurement		
ofs		and evaluation but also in		
Evaluation of Students in Distance Education		terms of education.		
atik		- Evaluating students in this		
alu		system is not extremely		
Ĕ		healthy. That is why I find it		
		insufficient.		
		- I find it absolutely inadequate.		
		It is not possible to measure		
		student achievements in this		
	Very Insufficient	system. - Distance education is not	14	56
	very insufficient		14	50
		suitable for primary school		
		students. The biggest challenge		
		is in the evaluation phase.		
		- I think it is very insufficient.		
		For primary school students,		
		online learning can only be		
		applied as a supplement to		
		face-to-face education.		

|--|

In Table 4, 12% of the teachers considered the evaluation of students in distance education at an acceptable level. While 32% of the teachers found the evaluation of students in distance education insufficient, 56% found it very inadequate. Among the teachers participating in the research, no teacher finds the evaluation of students in distance education very sufficient or sufficient.

In Table 5, the problems faced by the primary school teachers participating in the research in the field of measurement and evaluation in the distance education process are evaluated.

 Table 5: Problems faced by teachers in the field of measurement and evaluation in the distance education

	process		
Themes	Teacher Opinions	F	%
	- There may be technical problems caused by internet access at the student's home.		
Technical Issues	 It is a huge problem that students are not given education on computer and internet use. Distance education can cause technical problems related to computers and the internet not only at the evaluation stage but also at every stage of education. 	20	80
Communicati on Issues	 Failure to establish healthy communication with the student can be a problem during the evaluation phase. When healthy communication cannot be established, neither the training nor the evaluation phase is as efficient as desired. When children cannot communicate with the teacher in the classroom environment, this situation also appears as a problem in the evaluation process. 	16	64
Method Problem	 It is difficult to decide which method is healthier. It is a big problem to apply the methods used in the classroom environment in distance ethics, especially for primary school children. I do not think that the evaluation method techniques that can be used in distance education are suitable for primary school students. 	12	48
Student Issues	 Students cannot be motivated during the evaluation process as they are in the classroom environment. Students are very inadequate in formatting and reporting information in distance education. The student does not take the assessment process seriously, as there is no fear of passing the course. 	7	28

In Table 5, 80% of the teachers stated that they had technical problems, 64% had communication problems, 48% had method problems and 28% had student problems.

In Table 6, the solution proposals of the primary school teachers participating in the research regarding the problems experienced in the field of measurement and evaluation in the distance education process were evaluated.

Table 6: Solution suggestions of teachers regarding the problems experienced in the field of measurement and evaluation in the distance education process

Themes	Teacher Opinions	F	%
	- To solve the technical problems experienced, internet access must be provided uninterruptedly.		

Technical Support	 A 24-hour hotline should be established for technical problems experienced by students and teachers. To solve the technical problems experienced by the students, infrastructure support should be provided to eliminate internet interruptions. 	21	84
Communication Support	 It is necessary to establish healthier communication with students. One of the most important problems, I think, is the lack of communication. Communication between the student and the teacher needs to be planned and programmed. The communication between children and with the teacher needs to be raised to the communication standards established in the classroom environment. 	17	68
Appropriate Method Selection	 It is necessary to determine the most appropriate evaluation method for primary school students in distance education so that the student does not become a victim of the method in the reporting phase of information. I do not think that methods such as homework, written and multiple-choice tests are suitable for primary school students in distance education. The right method must be chosen. It is necessary to determine the most appropriate method that allows the healthy evaluation of primary school students in terms of measurement and evaluation. 	9	36
Motivating the Student	 Students need to be motivated. Provide psychological support when needed It is the duty of the parents as well as the teachers to keep the students excited. The motivation of students should be increased by providing teacher-parent cooperation. A reward system can be established to increase student interest. 	6	42

In Table 6, 84% of the teachers stated providing technical support, 68% communication support, 36% choosing the appropriate method, and 42% motivating students as solution suggestions for the problems experienced in the field of measurement and evaluation in distance education process.

4. Discussions

When primary school teachers were asked about their preferences for face-to-face education and distance education in the evaluation of students, it was seen that all of the teachers stated that face-to-face education was more advantageous than distance education. Although Talidong & Toquero (2020) state that the general views on distance education are negative, it is an important finding that it provides opportunities for the continuity of education during the pandemic period. The opinions of the primary school teachers participating in the research on the effectiveness of the evaluation of students in distance education are mostly inadequate and very inadequate. In line with the research findings, Sintema (2020) in his study reveals that teachers cannot make effective assessment and evaluation in this process and that more research is needed on how assessment should be done in distance education.

The problems faced by the primary school teachers participating in the research in the field of measurement and evaluation in the distance education process; technical problems, communication problems, method problems, and student problems. Saygi (2020) also stated in her study that one of the problems faced by classroom teachers during the Covid 19 process is the insufficient technological infrastructure. Similarly, in the study conducted by De Paepe et al. (2018), it was stated that one of the negative aspects of distance education is the lack of technical support. Parallel to the problems related to communication in the study, Fidalgo et al. (2020) found that the lack of rapid feedback in distance education caused a limitation in the evaluation. Sercemeli and Kurnaz (2020) also stated in their study on students that one of the disadvantageous aspects of distance education is the lack of interaction between teacher and student. Al-Smadi et al. (2012) stated in their study that students have different learning styles or that teachers evaluate the learning process for different purposes, making it necessary to prefer alternative measurement tools.

The solution suggestions of the teachers participating in the research regarding the problems experienced in the field of measurement and evaluation in the distance education process; technical support, communication support, appropriate method selection, and motivating the student. In their study, Biyikli and Ozgur (2020) focused on teachers' suggestions, making changes in teaching methods and techniques, establishing healthy communication with students, carrying out activities that increase student motivation, solving technology-related problems, completing student deficiencies with quick feedback, parent, school, teacher cooperation and process evaluation categorized as the basis.

5. Conclusion

Distance education applications, which have become widespread all over the world with the Covid-19 pandemic process, have many problems in themselves but have become an area of importance, especially considering student readiness at the primary education level. What are the most reliable and objective measurement and evaluation methods in distance education is one of the problems experienced in primary education. Therefore, this study, it is aimed to evaluate the problem of evaluating primary school students in online education with the views of teachers. As a result of the research, teachers stated that face-to-face education is more advantageous than distance education in the evaluation of students.

Teachers' views on the effectiveness of evaluating students in distance education are insufficient and very inadequate. While the teachers categorized the problems they encountered in the field of measurement and evaluation during the distance education process as technical problems, communication problems, method problems, and student problems, they suggested technical support, communication support, choosing the appropriate method, and motivating the students for the solution of the problems.

6. Recommendations

In line with the results obtained from the research, it is seen that it is especially important to eliminate the problems related to the evaluation of primary school students in the distance education process. In the distance education process, the technical infrastructure should be created to meet the needs of students. Student-teacher communication should be established healthily. It is necessary to

apply new methods in the evaluation of students. In addition, it is recommended to organize seminars blended with activities aimed at informing and motivating students about the evaluation process in distance education.

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