

International Journal of Trend in Scientific Research and Development (IJTSRD)





ISSN No: 2456 - 6470 | Volume - 3 | Issue - 1 | Nov - Dec 2018

Distance Learning Perspective in Turkey and Kırıkkale University: A Case Study

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ABSTRACT

In the early days, the distance learning (DL) process, which started with writing, has become quite common with applications from radio, television, computer and mobile devices until today. At the same time, distance learning is a teaching process starting from childhood and where people of all ages can receive education. Therefore, the number of people receiving education distance method has increased learning Both in Turkey considerably. and globally, particularly in undergraduate and graduate levels, distance learning is widely used.

In this study, distance learning structure of Kırıkkale University, which provides distance learning services at associate and undergraduate level, has been examined. At Kırıkkale University, where the distance learning software is developed by its own staff, students are provided with written, audio and visual educational materials. Thanks to the weekly managed virtual classrooms, a strong communication between instructors and students, such as face-to-face education model, is ensured. Mid-term exams are conducted online, and final exams are conducted under the supervision of the instructor at the school. Online exams are made available through a module within the Learning Management System (LMS). Likewise, the forum and chat modules are integrated into the LMS, where the students can communicate with each other and with the instructors, students can find solutions to their problems easily.

Kırıkkale University provided an opportunity for people who could not receive formal education. The use of distance learning in the university has led to the introduction of a large number of distance learning materials and technologies and also has led to an increase in the level of formal education.

Key Words: Distance Learning, Learning Management System, Virtual Classroom, Formal Education.

1. INTRODUCTION

Distance Learning, which was first mentioned in the University of Wisconsin's 1892 Catalog, was used for the first time in a paper written by William Lighty, the director of the same university in 1906. This term (Fernunterricht) was introduced by German educator Otto Peters in Germany in the 1960s and 1970s and in France, it is practiced as a name (Teleenseignement) for distance learning institutions [1-2].

Technological developments are limited in the period when distance learning is introduced. Therefore, the educational activities carried out by the student and the instructor without any co-operation were realized by letter. The first systematic application of distance learning was implemented by Isaac Pitman in England. Pitman, who lived in the 1800s, gave steno lectures through letters. Besides, the first organized distance learning activity was started in Germany. The language school "De Langenscheid", founded in 1856, has provided distance learning [1-3].

In Turkey, distance learning, has already been discussed conceptually in 1960 up to 1973. After 1970s, distance learning studies were conducted at secondary education level with different initiatives a number of experiences have been acquired and progress has been made, albeit limited. After 1980 these applications were moved to higher education with the establishment of Anadolu University Open Education Faculty. From the beginning of the 1990s to the beginning of the 2000s, the educational opportunities offered by distance learning with the developments in the field of information and information communication technologies (ICT)

increased and distance learning has been a part of the mainstream in education with the number of thousands of students in Turkey [4].

In the literature, although there are studies on the historical development of distance learning, the technologies used in distance learning, the benefits and limitations of distance learning; there are not many studies on the target of groups, aims, distance learning programs. In with this study, some higher education institutions and training programs under distance learning applications in the world and the current state of distance learning in Turkey, the number of students and some other important properties were investigated [5-10].

2. FEATURES OF DISTANCE LEARNING

- ➤ Distance learning is independent of time. An individual can continue his / her education at any time by choosing the most suitable time. In this education system, how to use the time interval to complete the trainings is entirely up to the student.
- Distance learning is also independent of the environment. In other words, individuals with inadequate educational opportunities or financial difficulties cannot continue their education where they live, and they can achieve the quality they want without changing the quality they want. In this way, one of the biggest problems of the education system, "equality of opportunity in education" is fully ensured.
- With distance learning, the students are aware that they are taking lessons for their own personal development and that they take the courses at their own discretion and at intervals determined by them, so that the students behave more

- responsibly. The initiative is in the hands of the student in distance learning.
- There is no obligation to take distance learning individually. In distance learning, it is possible to take part in joint projects and exchange information between students and instructors using the facilities of information technologies such as e-mail, forum, chat [11].

3. CURRENT STATUS OF DISTANCE LEARNING IN TURKEY

Turkey is a country acquainted distance learning quite late compared to developed European countries. Today, however, the opposite of this situation is experienced. In particular, the distance learning in Turkey, has entered a phase of rapid development together with the Anadolu University Open Education Faculty's establishment. However, the progress of Turkey's communications infrastructure, technology and increase in the amount of investment, are among the other factors that expansion of distance learning. Continuous development of the Internet in Turkey and to usage web-based remote applications in education has led to a more conscious education policy is intended. Through the Internet, many communication technologies are gathered in a single environment. Users can access printed resources, audio and video content via the internet [12].

Distance learning in Turkey is mainly applied to undergraduate and postgraduate level. In Table 1 and Table 2, number of available programs and opened quotas for university entrance exams in Turkey in 2012 and 2017 is shown. According to this Table 1, the number of distance learning quotas increased by 31,72% between 2012-2017.

Table 1: University entrance examination quotas in 2012 and 2017 in Turkey

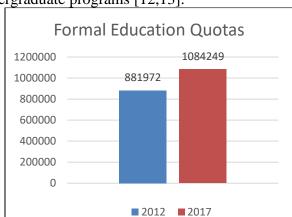
		Associate Degree		Undergraduate Degree	
		Turkey	Kırıkkale University	Turkey	Kırıkkale University
2012	Total Quota	364,612	2,715	517,360	3,455
	DL Quota	8,811	200	3,359	0
2017	Total Quota	556,432	3,877	527,817	4,648
	DL Quota	11,606	618	1,540	0

Table 2: Distance learning program numbers of Turkey Universities by years.

		Number of Academic Programme		
		Government Universities	Foundation Universities	Total
2010	Associate Degree	56	10	66
	Undergraduate Degree	24	4	28
2017	Associate Degree	86	23	109
	Undergraduate Degree	11	4	15

In Fig. 1 and Fig. 2, in 2012 and 2017, the quota graphs that compare the number of formal education and distance learning in Turkey is shown. According to these graphs, distance learning quotas increased at a higher rate than formal education quotas.

In Fig. 1 and Fig.2, the number of students, are trained in different programs in Turkey. The number of programs is shown in Table 2. In addition, in Table 3 and Table 4, a list of the distance learning programs obtained from the websites of the Higher Education Institution and universities has been established. Table 3 lists associate degree programs and Table 4 lists undergraduate programs [12,13].



Distance Learning Quotas

13400

13200

13146

13000

12800

12600

12400

12200

Figure.1: Formal Education Quotas Graph

Figure 2: Distance Learning Quotas Graph

■ 2012 ■ 2017

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12000

11800

11600

Table 3: Distance learning associate degree program in Turkey (2012)

Order	Program Name	Number
1	Justice	3
120	Hospitality Services	oì A
3	Banking and Insurance	0 2
4	Information Management	6
5	Computer programming	11
6	Computer technology and programming	8
7	Computer technology	3
8	Geographic Information Systems	1
9	Child Development (Mixed Education)	1
10	Child Development	2
11	Foreign trade	2
12	Drugstore Services	2
13	Electronic Communication Technology	1
14	Electronic Communication	1
15	Electronic Technology	1
16	Industrial Electronics	2
17	Industrial automation	1
18	Food Quality Control and Analysis	1
19	Public Relations and Publicity	1
20	Internet and Network Technologies	1

21	Worker's health and work safety	1
22	Business Management	11
23	Chemical Technology	1
24	Control and Automation Technology	1
25	Logistics	2
26	Mechatronics	1
27	Accounting	3
28	Accounting and tax practices	2
29	Retail and Store Management	1
30	Radio and Television Programming	1
31	Management of health institutions	1
32	Medical Documentation and Secretariat	2
33	Medical Laboratory Techniques	1
34	Medical Promotion and Marketing	1
35	Medicinal and Aromatic Plants	1
36	Tourism and Hospitality Management	1
37	Tourism and hotel Management	2
38	International Logistics	1
39	Web Technologies and Programming	0 1 V
70	General Total	86

Table 4: Distance learning undergraduate programs in Turkey (2012)

Order	Program Name	Number
<i>U</i> ₁ <i>c</i>	Banking and finance	3 10
2	Computer engineering	1/2
3	Computer and Instructional Technology education	2
4	Geography	
5	Contemporary Turkish Dialects and Literatures	47
6	Labor Economics and Industrial Relations	8
7	Econometrics	-1
8	Industrial Engineering	2
9	Journalism	1
10	Public Relations and Publicity	1
11	Economy	1
12	English Language and Literature	1
13	Business Management	4
14	Public administration	1
15	Finance	1
16	Maths	1
17	Accounting Information Systems	1
18	Radio Television and Cinema	1
19	Sociology	1
20	History	1
21	Turkish language and literature	2
22	Management information systems	1
	General Total	28

The number of distance learning students in Kırıkkale University has increased rapidly since 2009. Table 5 shows these values. Our undergraduate students, like other universities in Turkey, takes some distance learning courses online These courses are generally Turkish Language, Foreign Language and Ataturk's Principles and History of Turkish Revolution. In this way, undergraduate students also entered and practiced in distance learning system. Kırıkkale University Distance Education Center (KUDEC) is the institution that provides distance learning services as it was planned according to our educational goal. The numbers shown in Table 5 are also KUDEC student numbers. According to the table, the number of students served by KUDEC has increased rapidly over the years.

Table5. Number of KUDEC students, virtual classroom and assignment

Year	Number of Students	Virtual Classroom	Assignment
2014	3915	1685	3546
2015	4352	1955	4965
2016	5412	2134	5448
2017	6234	4345	of ₇₅₄₅ nd

In Kırıkkale University e-learning platform, concurrently 15 live classroom session can be given at the same time. Approximately 510 hours of virtual classroom lessons are given weekly for 250 courses and each session must be archived in a file for reuse and monitoring by the students. Nearly 200 megabytes of data per hour is produced in one virtual classroom session, it means that a course video file occupies about 150 to 400 megabytes, according to the length of the course session. In the first term of 2017, 1684 virtual classrooms were recorded. The volume of virtual classrooms stored in a term reached 336 gigabytes.

At least one assignment is given for each course. The assignment file, which the students send back for reviewing by tutor to the system, is about 40 kilobytes. Over the last four years, a 5064 megabytes assignment files have been stored.

4. CONCLUSION

Distance learning is of great importance for Turkey. The lack of formal education at the desired level and quality increased the value given to distance learning. As the number of students increases in formal

education, it reduces the efficiency in the classroom. However, distance learning can provide more useful results in terms of individual development and can reinforce the transmitted information with audiovisual examples. At the same time, it enables individuals who are not able to attend school due to work or physical disability to receive education. The use of technological media tools, the Internet and the use of computer infrastructure have facilitated access to information, it has positively affected individuals of all ages or groups to receive education. At the same time, distance learning plays an important role in decreasing the cost of education by preventing many elements such as buildings, classrooms, teachers and educational materials that limit the student capacity to participate in the training and taking all these into consideration, it is seen how distance learning is valuable for economic and technological education. Distance learning services which have a long tradition in Turkey have provided the increase of individual success and the basis for a better quality of independent work.

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