Perceptions of Foreign Language Teachers for M-Learning

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Abstract—Educational technology is a set of systems consisting of tech savvy equipment, processes and methods for the effective and positive implementation of educational theories. Nowadays, when the internet is becoming widespread, and mobile device technologies such as smartphones and tablets have been developing rapidly, it is possible to access educational content without being connected to a place. Today, almost everyone has smartphones. Many social networks, sites, applications are available. Many studies have shown that technology is effective in the field of education. For teachers with foreign language and their perceptions of learning through the help of technology are important. In this study, it is important to determine teachers' perception levels of mobile applications that contribute to foreign language learning. The "mobile learning perception scale" developed to access the research data. Items that are mentioned in the scale are basically positive question, "absolutely disagree", "disagree", "undecided", "agree", "strongly agree". After analysing the reliability of the survey, the overall result was found as Cronbach α = 0.963. A total of 180 teachers attended from North Cyprus and Russian universities. According to the result of the research, the teachers' perception of mobile learning is high. But this rate is proportional to age. There is a difference in the findings regarding the use of mobile technology when looking at the professional seniority and age ranges. This is due to the fact that recently, technology-supported trainings have been increased and the addition of "material design courses" and "technology-supported trainings" at universities play an important role in increasing perceptions. The use of mobile
technology can be increased by providing in-service trainings to teachers with high professional experience and ages.

**Keywords**—Mobile learning, technology, foreign language, education, teachers

### 1 Introduction

Education is a process aimed at helping people to know, analyse and help themselves by showing what they are and to change behaviour in the individual. It is during the educational period when certain permanent behavioural changes occur in the individual’s life, and these behavioural changes take place due to the individual's experiences through his journey. Therefore, a proper training is a need in well planned educational environment. In other words, it can also be called a formal education. It is referred as a planned educational activity carried out within a curriculum. Formal education is carried out through teaching. Dewey, in its broadest sense, defines education as a means of sustaining social life [22]. According to Durkheim, education is the process of awakening physical intellectual and moral states in children [28]. Children are attracted towards educational circles and technologies, and it becomes accessible to them as these features are very much independent of time and space. These can be used anytime when needed and are easy to adjust according to any location or time zone [15,17,25].

Technological developments have entered the field of education, and are included in distance education and many training programs. It has started settling down by imparting information to diverse people through various modes such as modern technologies, radio signals, satellite broadcasts, network cables and many other mediums [11,29]. For example, the internet, an indispensable element of modern life, is used by the majority of today's youth for information, communication and entertainment purposes. For example, the Internet has become the indispensable part of the majority of the youth’s today, and it has become the source of information, communication and entertainment purpose for them now [25,13]. The widespread use of technology and the constant exchange of information have revealed concepts such as distance education, e-learning, m-learning. Rapid developments in the technology and science world have put many countries in the race. Due to this race, the development of technological studies has not only been a privilege but an imperative that has to be improved continuously. In order to realize this imperative, it is necessary to benefit from educational activities by integrating technology efficiently in the curriculum [34].

Students, these days are called “digital naive” or “net generation” as mobile technologies have reached the nooks and corner of everyone’s life and immensely contributed in the global communication network. This generation has seen the vast usage and growth of web services [9,23,21]. It is this generation that will become teachers who have been using computer and internet throughout their life and are well equipped with the technology. The use of information and communication technologies (ICT) for teaching purposes has become a necessity in training
individuals who make up the information society. In the last decade, mobile learning (m-Learning) has attracted the attention of practitioners and researchers due to the rapid development of telecommunication technology and its application to mobile devices.

Of all these technological developments, mobile technology is the fastest growing technology in the high-tech industry. Keegan [16] estimates that 1.5 billion mobile phones are used by six billion people worldwide. Today, over 90 percent of people use mobile phones. Mobile phones, which are more than three times the number of personal computers, show an increase in the number of users. The penetration rate for mobile phones is more than 100% in some countries such as in Malaysia. Portable computing technology now makes mobile devices a convenient and potential tool to bridge the gap between formal and informal learning experiences [18,30], especially the learning that involves any other language [31,14].

Niazi [40] defines mobile learning through the use of technologies such as laptop, tablet, mobile phone, PDA and handheld devices in the learning and teaching process. Niazi [40] defines mobile learning as the e-learning activity carried out through the features offered by the computer and communication technologies of devices such as PDA and mobile phones, which we can carry with us in daily life. In the experimental study conducted by According to the survey data, it was seen that the students who participated in the research had high perception levels of mobile learning. In the experimental study carried out by Yavuz, Ozdemir, & Celik [33] observed that the game application designed to measure the level of students' comprehension of English through mobile learning increased their success levels in English education. In the study conducted by Theodorou & Meliones [27] and Garbin, Trombeta de Oliveira, Pirillo, & Telles [7] investigated how technology should be adapted to each teaching [33].

Pre-service teachers should acquire the necessary knowledge and skills about using ICT in pre-service learning processes; they should be able to use them for different purposes, such as teaching and professional development, both during their pre-service training and in their teaching life. In this context, opportunities should be created for prospective teachers to use technology in different contexts during their education. While researching about mobile learning aspects, teachers' attitudes and knowledge are very important.

1.1 Mobile learning in foreign language teaching

Computer is at the top of the technological devices used in language teaching. Computer assisted learning practices have been expressed with the concept of e-learning (E-Learning) since 1999. It has provided students with advantages such as location, space and time-independent learning, personalized instruction and motivation towards the study. One of the most important advantages of computer-assisted language learning was the possibility of learning [40]. Especially with the developing technologies, portable digital devices such as tablet computers and smartphones, which became widespread after 2000's, brought new applications and activities along with conceptual changes. Digital transformation is not just about
technology. In addition, it is mainly provided by leadership based on 3 key elements: teamwork, startup culture and matrix management. While providing digitalization, these rules should also be considered [42].

Mobile assisted language learning and smartphone assisted language learning have been added as sub-branches of computer assisted language learning. M-learning has been added to the concept of e-learning, which has been in use since 1999 [8] [26]. In the literature review, there are many studies related to mobile supported learning of different languages. English is the leading language among these applied studies with a rate of 71.18%. After English, Chinese (N = 6, 10.16%), Turkish (N = 4, 6.77%), German (N = 4, 6.77%), Arabic (N = 2, 3.38%), Persian (N = 1, 1.69%) education / training have been included, respectively. When applied studies were analysed, mostly positive attitudes and academic success results were reported [1,2,5]. Cevik and Koçer [34] in the domain of vocabulary; Chang and Hsu [5] in the area of reading and talking; Andujar [35] reported that they achieved positive results for the development of writing ability with portable devices.

Studies have reported successful results in learning and showed high student motivation, uninterrupted learning opportunities, visual and auditory content items as factors that are affecting students’ success [1,4,5,6,19]. In short, mobile learning means “providing learning to students at anytime and anywhere using wireless internet and mobile devices, including mobile phones, personal digital assistants, smartphones and digital music players” [3,31,20].

The attitude of teachers is important in the arena of mobile learning as the researches on m-learning in the field of language education shows that m-learning is an effective tool in the education of foreign language.

2 Method

2.1 Research model

In this research, the relationship between two or more variables have been examined. Relational screening model has been used to determine the above subject matter.

Scanning models are classified in different ways. Karasar [36] has divided the screening models into general screening models and case studies. General screening models are relational screening models in which only one variable is examined or individual variables are examined individually, and two or more variables are examined to determine the relationships between them.

In the study, the interests of teachers working in the high school who formed the sample regarding their perceptions of the purpose-mobile technologies adaptation, teaching perceptions of conformity in the context of mobile learning, the way of mobile learning application and communication adequacy of the tools for teaching mobile learning in language teaching were taken into consideration. Mobile learning perception levels of teachers working in high school according to their gender, age, professional experience, etc. were investigated.

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2.2 Research group

The research was carried out with high school teachers working in public high schools in Russia. After obtaining the necessary permissions, it was applied to high school teachers working in 280 public schools. The total return for the questionnaire with quantitative research questions was 210. However, 20 questionnaires, which were found to be filled out among them were not taken into consideration, and 10 questionnaires were not returned. Therefore, the number of questionnaires analysed within the scope of the research is 180.

2.3 Data collection tool

Personal information and mobile learning perception levels scale were used to reach the result in the research. In the personal information section, there are questions about their gender, duration of service, and their age. In the second part of the questionnaire, the mobile learning perception scale developed by Ozdamli was used to measure the perceptions of teachers working in high school about mobile learning in foreign language teaching. This scale was developed to determine teachers' perceptions of mobile learning. The scale was structured as a 3-factor and the content of the items was considered to be collected in the factors and their suitability to the theoretical structure, mainly, "harmony with purpose-mobile technologies" (8 items), "fitness for the branch" (9 items) and "communication style of mobile learning and communication competence of tools" (9 items). The scale consists of 3 factors and 26 items.

Items included in the scale for positive question items were mainly, 1 "strongly disagree", 2 "disagree", 3 "indecisive", 4 "agree", 5 "absolutely agree". In the negative question items, the listed degrees were 1 "strongly agree", 2 "agree", 3 "indecisive", 4 "disagree", 5 "absolutely disagree". Necessary permissions were obtained from Fezile Ozdamli for the use of the scale.

2.4 Data analysis

All the data collected with scale forms were encoded and entered into the computer, and tables were explained and interpreted within the given framework of the general purpose and sub-objectives of the research area. SPSS 20.0 program was used for the necessary statistical solutions. In the analysis of the data; in descriptive statistics, frequency (f), percentage (%), arithmetic mean (X) and standard deviation (s), variance analysis were used in one-factor comparisons. The data obtained with the applied questionnaire were analysed by using t-test and one-factor variance (One-Way ANOVA) analysis techniques, and explained by tabulating.

2.5 Evaluation of the suitability of the data for factor analysis

The data obtained from the study group is suitable for exploratory factor analysis explained by Kaiser-Meyer-Olkin (KMO) and Barlett test [37,38]. The high value of
Kaiser-Meyer-Olkin means that each variable of the scale can be perfectly predicted by other variables. If the values are zero or close to zero, no interpretation based on these values can be made, since there is a distribution in the correlation distribution. As a result of the Kaiser-Meyer-Olkin test, it is interpreted that factor analysis cannot be continued if the value is less than 0.50 [37].

Table 1. Factor Analysis

| Component | Initial Eigenvalues | Extraction sum of Squared Loading | Rotation Sum of Squared Loadings |
|-----------|---------------------|-----------------------------------|---------------------------------|
|           | Total               | % OF VARIANCE | Cumulative % | Total | % variance | Cumulative % | Total | % variance | Cumulative % |
| 1         | 14.603              | 54.084   | 14.603 | 54.084 | 14.28 | 52.907 | 52.907 |
| 2         | 8.624               | 31.942   | 8.624  | 31.942 | 8.923 | 33.049 | 85.956 |
| 3         | 2.985               | 11.056   | 97.082 | 9.056  | 11.056 | 97.082 | 3.004 | 11.126   | 97.082 |

In this research, two factors were discussed, mainly, that the scale used in the research has 3 factors. And while the first and second factors are significant, the third factor is meaningless.

3 Results and Discussion

3.1 Demographic features of the participants

Frequency (f) and percentile (%) distributions of the gender of the teachers constituting the sample group of the research were given in Table 2.

Table 2. Distribution of teachers by gender

| Gender | F |
|--------|---|
| Woman  | 99 |
| Men    | 81 |

When the distribution of teachers according to their gender was examined, it was seen that female teachers were more in number.

Table 3. Distribution of teachers by age

| Age Group           | F |
|---------------------|---|
| 28 and under        | 57 |
| 29 and 35           | 55 |
| 36 and 45           | 42 |
| 46 and above        | 26 |

When the teachers were examined according to their age, it was seen that most were in the age group of 28 and below.
Table 4. Distribution of teachers by duration of service

| Duration of Service | F   |
|---------------------|-----|
| Between 1 and 6 years | 78  |
| Between 7 and 15 years | 59  |
| 16 years and over    | 43  |

The teachers were found to be between the years 1 to 6 on an examination on the basis of professional seniority where any finding of age was almost equivalent to the professional seniority.

3.2 Gender

In order to understand that there is no significant difference in gender in the study, ANOVA test was performed.

Table 5. Factor of gender

| Factor | Sum of Squares | df | M     | F    | Sig. |
|--------|----------------|----|-------|------|------|
| Factor 1 | Between Groups | .110 | 1 | .110 | .109 | .742 |
|         | Within Groups  | 177.890 | 177 | 1.005 |      |      |
|         | Total          | 178.000 | 178 |      |      |      |
| Factor 2 | Between Groups | 7.734 | 1 | 7.734 | 8.039 | .005 |
|         | Within Groups  | 170.266 | 177 | .962  |      |      |
|         | Total          | 178.000 | 178 |      |      |      |

ANOVA was used to see if there was a significant difference when compared to the gender. There is a significant difference between the factor 2 by age. In the study, there was no significant difference in terms of "Purpose-Mobile Technologies Compliance (8 items). There is significant difference according to the "Branch compatibility (9 items)" factor by gender. Man have higher perceptions in the field of "Branch compliance" than women.

3.3 Age

Table 6. Factor of age

| Factor | Sum of Squares | df | M     | F    | Sig. |
|--------|----------------|----|-------|------|------|
| Factor 1 | Between Groups | 12.135 | 3 | 4.045 | 4.268 | .006 |
|         | Within Groups  | 165.865 | 175 | .948  |      |      |
|         | Total          | 178.000 | 178 |      |      |      |
| Factor 2 | Between Groups | .972 | 3 | .324 | .320 | .811 |
|         | Within Groups  | 177.028 | 175 | 1.012 |      |      |
|         | Total          | 178.000 | 178 |      |      |      |

ANOVA was used to see if there was a significant difference when compared to the ages. There is a significant difference between the factor 1 by age. In the study,
there was no significant difference in terms of “Purpose-Mobile Technologies Compliance (8 items)”. There is no significant difference according to the “Branch compatibility (9 items)” factor by age. If we look at the distribution by age, the perception of those who are younger is higher in the “Purpose-Mobile Technologies Compliance” field. However, when we look at the “Branch compliance” factor, we see that age does not make a difference.

3.4 Service of duration

| Factor 1 | Sum of Squares | DF | Mean Square | F     | Sig. |
|---------|----------------|----|-------------|-------|------|
| Between Groups | 5,790 | 2     | 2,895 | 2.959 | .054 |
| Within Groups   | 172.210 | 176 | .978  |       |      |
| Total           | 178.000 | 178 |       |       |      |
| Factor 2        |          |      |       |       |      |
| Between Groups  | 789   | 2     | .394 | .392 | .677 |
| Within Groups   | 177.211 | 176 | 1.007 |       |      |
| Total           | 178.000 | 178 |       |       |      |

Anova was used to see if there was a significant difference when compared to the Service of Duration. There is a significant difference between the factor 1 by age. A significant difference was found between the factor 1 by age when compared to the service of duration on the usage of ANOVA. In the study, there was no significant difference in terms of “Purpose-Mobile Technologies Compliance” (8 items)” or according to the “Branch compatibility (9 items)” factor by service of duration. If we look at the distribution by service of duration, the perception of those who are younger is higher in the “Purpose-Mobile Technologies Compliance” field. However, when we look at the “Branch compliance” factor, we see that age does not make a difference. Yavuz, Ozdemir, & Celik [33] used gamification technology in foreign language teaching and measured the effectiveness in teaching with mobile powered tools. In this research, the result is consistent with our study. Teachers’ perceptions about mobile supported technologies are high. Yavas Celik & Yavuz [33] Academics questioned the effect of talent on success and over time developed many language aptitude tests because success and achievement prediction in aptitude measurement will mean saving time in language learning. In addition, language learning skills have started to be compared with other individual differences (IDs) with the changing talent understanding in recent years. These studies aim to increase students’ success by designing instructions based on their abilities and other identities. Therefore, this study aimed to find the relationship between the language proficiency of Turkish EFL students, the use of self-reported strategy and language success in order to see the enhancement of language proficiency with its strategic use and success. The results showed that language skills affect the success of foreign language learning.
4 Conclusion

In the research, it was concluded that women are more efficient teachers than men. Considering the age ranges, it was concluded that there are more teachers in the age range of 29 and 35. Professional seniority is relatively equivalent in proportion to age. If we look at the number of the teachers according to their gender, we will notice a significant difference by a factor of 2 by age. In the study, there is no significant difference in terms of “Objectives-Mobile Technologies Compliance (8 items)” but we found a significant difference by gender according to the “Branch compatibility (9 items)” factor, also called “Branch compliance” for men. Anova was used to see if there was a significant difference by age. There is a significant difference between factor 1 and age. Although it can be noticed that the perception of the youth is higher in the “Objectives-Mobile Technologies Compliance area.”. However, when we look at the branch compliance factor, we see that age does not make a difference. Anova was used to see if there was a significant difference compared to the Duration Service. There is a significant difference between factor 1 and age. In the study, there was no significant difference in terms of “Compliance with Purpose-Mobile Technologies (8 questions)”, but there was no significant difference in terms of service time according to the given “Service time (9 questions)” factor. If we examine the distribution by time service, perception is higher in the field of “Purpose-Compliance with Mobile Technologies.”

5 Suggestions

As a result of the research, when the perceptions of teachers teaching foreign languages about the use of mobile technology were examined, it was seen that there was a positive result. It is pleasing that perceptions are high in relation to mobile technologies. However, although their perceptions about mobile technology are high, their usage rates are low. Informative sessions can be arranged for teaching the use of mobile technology. In-service trainings can be offered and practices of mobile learning, can be increased for middle-aged teachers.

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