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Investigation of the Relationship between Pre-service Music Teachers’ Attitudes towards Teaching Profession and their Self-efficacy Beliefs

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Abstract

This study aimed to examine the attitudes of pre-service music teachers towards teaching profession and their teaching self-efficacy beliefs. The attitudes and self-efficacy beliefs of pre-service music teachers towards teaching profession were compared based on the variables of gender and academic achievement. The research sample consists of 262 pre-service music teachers studying in the faculties of education in Turkey. Personal information form, attitude scale towards teaching profession and teacher self-efficacy beliefs scale were used in the research. The findings showed that the pre-service teachers’ attitudes and self-efficacy beliefs towards teaching profession are high. In addition, pre-service teachers’ attitudes and self-efficacy beliefs towards teaching profession differ according to their gender and level of academic achievement. A significant relation was found between pre-service teachers’ self-efficacy beliefs and attitudes towards teaching profession.

Keywords

Music teachers
Self-efficacy
Teaching profession
Attitude

Introduction

It is seen that the number of studies on teaching self-efficacy and attitude towards teaching profession has increased at a significant rate in recent years in Turkey. It can be stated that these studies are generally empirical studies aiming to reveal how teaching self-efficacy and attitude towards the profession change according to demographic characteristics. The findings obtained in these studies seem to be different and inconsistent with each other, so it becomes difficult to reach generalizable information. The aim of this study is to examine whether the pre-service music teachers’ attitudes towards teaching self-efficacy and profession differ based on demographic characteristics.

Pre-service art teachers should have teaching competencies as well as leading personal and professional lives that are interested in and enriched with visual arts. In this regard, a successful art education student has competencies in art and art education, teamwork, actively dealing with children and young people, effective classroom and workshop management skills and student-centered teaching approaches. Pre-service art teachers try to realize teaching program acquisitions for students of all ages from preschool to secondary education (Kara, 2020a; Kara, 2020b; Ünlü, Aydos & Sünbül, 2008; Yates, 2007).

Music teaching is a unique profession. Music teacher education is the process of teaching individuals who are oriented towards this profession in the field of music. This process generally focuses on the competencies required by the music teaching profession. These are called music teaching self-efficacy. From this point of view, music teacher education is the process of gaining and developing music teacher competencies. The aim of music teacher education is to provide pre-service teachers with these competencies and to develop these competencies. Music teaching competencies are generally gained through pre-service training and developed through in-service training. This process is carried out with certain programs carried out under certain regulations in certain environments (Uçan, 2006).

Teaching is a profession that requires professional qualifications (field knowledge, general culture and professional knowledge) as well as personal qualities and requires a positive attitude and behavior in the professional sense at the same time (Abu Karsh, 2018; Alan, 2019; Erden, 1988; Mutlu, Polat, & Alan, 2019; Serhan, 2019; Sunbul 2003; Turunen, 2019). Thus, pre-service teachers’ positive attitude towards the profession is as important as knowledge. It is an opinion adopted by all parties regarding education that teachers have some competencies that they should have in order to ensure that students, who are the target audience of education, reach the desired level (Şahin & Beydoğan, 2016; Ünlü, Sünbül & Aydos, 2009).
In the literature, it was stated that the concept of teacher competence is considered as an important concept representing the professional identity of teachers and prospective teachers (Jung, Zhang, & Chiang, 2019; Sünbül & Arslan, 2006; Ulusoy, & Argun, 2019; Yeşilyurt, 2011). Bandura (1997) states that self-efficacy belief is fed from four basic sources: enactive mastery experience, verbal persuasion, vicarious experience, and physiological and affective state. Personal experiences are the most effective source that creates the self-efficacy belief. While successful experiences of the person provide the self-efficacy belief to be formed and strengthened, unsuccessful experiences cause the self-efficacy belief to weaken. A teacher can work on a specific teaching method, practice this method and gain successful experiences. In this regard, the development of a high self-efficacy belief in any field is directly related to the successful experience in that field (Kara, 2020; Yurt and Sünbül, 2014).

When the concept of self-efficacy is evaluated from the teacher’s point of view, it emphasizes the knowledge, skills and attitudes required to fulfill the duties and responsibilities required by teaching profession (Goddard, Hoy & Woolfolk-Hoy, 2004; Hilton & Canciello, 2018; Laadem & Mallahi, 2019; Perdana, Jumadi, & Rosana, 2019; Woolfolk-Hoy & Spero, 2005). Based on the above information, it can be argued that the teacher’s self-efficacy beliefs and expectations and judgments about the student, the teaching style, help provided to the student, feedback, teacher-student relationships have significant effects on students’ performance and motivation levels (McClure et al., 2011; Salanova, Martínez & Lorens, 2012). One of the basic elements of success in the teaching environment is the teacher’s self-efficacy belief. This belief affects the quality of teaching, methods and techniques, student participation and success and therefore determines the success of students (Billheimer, 2006; Gunning & Mensah, 2011).

The fact that the individuals who will enter the professional life have the self-efficacy related to their own profession allows them to enter the business life with a high level of readiness related to that profession. The situation can be considered as an indicator of the individuals’ achievement in their professional life. Teaching is also a profession that pre-service teachers should start their job with a lot of professional knowledge and equipment. For this reason, it is important for pre-service teachers to graduate from the institutions they study with the necessary knowledge and equipment in terms of their readiness for business life (Koçak Macun, B., Macun, B., & Safalı, 2019). Research that is based on the investigation of their beliefs and perceptions has revealed that teachers’ professional competencies, attitudes and motivations are important in their teaching performance. Research has shown that positive teacher attitudes and perceptions are essential for effective teaching and that teachers’ beliefs, perceptions and attitudes affect practices and student performance (Eggen & Kauchak, 2001; Sünbül, 1996).

In research on teacher and teacher candidates, it has been found that individuals who prefer teaching profession are closely related to their attitude towards this profession and have more positive attitudes and motivation in their profession (Kahramanoğlu et al., 2018; PektAŞ & Kamer, 2011; Üstün, Erkan & Akman, 2007). Teachers’ attitudes towards the profession are of great importance for them to love the teaching profession more, to be more successful in the profession and to fulfill the requirements of the profession because attitudes and perceptions towards a profession affect the perception of professional competence and professional success (Durmuşoğlu, Yanık & Akkoynulu, 2009; Terzi & Tezci, 2007; Ünlü, 2011). In addition, teachers with high self-efficacy beliefs are more motivated to develop effective teaching skills and encourage student learning (Miller, Ramirez & Murdock, 2017).

Teachers must have a positive attitude towards the profession and “self-efficacy” in order to play the role required by the profession effectively. Self-efficacy beliefs of pre-service teachers and teachers from different branches in Turkey were examined. However, it seems that most of these studies include science and computer teachers (Büyükkaragöz & Sünbül, 1996; Özdemir, 2008). For example, Ertan (2016) examined the self-efficacy beliefs of preschool teachers according to the type of graduation. Üstün et al. (2017) conducted comparative research on secondary school teachers’ self-efficacy perceptions in terms of some variables. Self-efficacy beliefs of pre-service Social Studies teachers were examined by Ünlü, Kaşkaya and Kızılkaya (2017). The relationship between pedagogical formation students’ self-efficacy attitudes and beliefs was examined by Bakaç and Özen (2017). Berke and Colwell (2004) reported an overall positive change in students self-reported musical ability, musical knowledge, and confidence in capability of teaching music as a result of participation in a music methods course. Further, Barry insisted that the elementary music methods class must not only address the basic skills of music, it must address “student attitudes and their perceived strengths and weaknesses.

Although, research exists that investigates the complexities of teacher training in music, relatively little research has explored the issue by examining students’ self-efficacy beliefs regarding making and teaching music within the construct of teacher-efficacy. Specifically little research has attempted to identify the possible factors that
may affect self-efficacy beliefs. With so much existing research in the construct of self-efficacy and its related construct, teacher-efficacy, it seems reasonable that an examination of music teacher-efficacy beliefs among elementary education majors within the larger context of teacher-efficacy would help bring clarity to this complex research problem. It is seen that the studies on the pre-service music teachers’ attitudes and self-efficacy towards the profession are limited. Therefore, it is thought that the findings obtained in this research will help music teacher candidates develop both professional competence and self-efficacy beliefs because music teachers have an important place in art education. Identifying their self-efficacy beliefs and professional attitudes and taking precautions according to the results achieved will strengthen their self-efficacy belief, and thus such teachers will have students with high self-efficacy perception, who are self-confident and enjoy music lessons. For this reason, in this study, we tried to examine teaching self-efficacy beliefs and attitudes of pre-service music teachers in many ways. Therefore, the study sought to answer the following research questions:

1. What are the attitudes and self-efficacy beliefs of pre-service music teachers towards the teaching profession?
2. Is there a significant difference in pre-service music teachers’ self-efficacy beliefs and attitudes towards teaching profession based on gender and academic achievement?
3. Is there a significant relationship between pre-service music teachers’ attitudes towards teaching profession and self-efficacy beliefs?

Method

Comparative relational survey method was used to test the problems and sub-problems of this research, which explains the relationship between pre-service music teachers’ teaching self-efficacy beliefs and teaching attitudes. This method enables to describe the current events, facts and variables as they are and to explain the relationship between the variables (Hess, 1990). The target population of this research consists of pre-service teachers who receive music education at the Education Faculties of Necmettin Erbakan University, Gazi University and Niğde Ömer Halis Demir University. The study used convenient sampling method and 262 pre-service music teachers were randomly selected to participate in the research. Students were given brief information about the purpose of the study and it was stated that participation in the study was on a voluntary basis. 59.5% of the participants in the study are female and 40.5% are male. In terms of academic achievement, 46.6% of the participants have high levels, 38.5% of them have moderate level, and 14.9% of them have low levels. The average age of the pre-service music teachers in the research sample is 20.4 years.

Measuring Tools

Attitude Scale towards Teaching Profession

The attitude scale developed by Kahramanoglu et al. (2018) was used to determine the attitudes of music teacher candidates towards the teaching profession. The scale consisting of 12 items has a single factor structure. The scale was prepared in 5-point Likert type (1-Strongly disagree, 5-Strongly agree). The scores from the Attitude Scale towards Teaching Profession vary between 12 and 60. In this study, the scores obtained from the measurement tool were divided into the number of items and scores ranging from 1 to 5 were given. The highest score 5 and the scores close to 5 indicate that there are more positive attitudes towards the teaching profession. The alpha coefficient calculated for the measuring tool in this study is 0.92. The value indicated that the reliability of the measurement tool related to internal consistency was high.

Teacher Self-Efficacy Belief Scale

‘Individual Teacher Effectiveness’ scale developed by Sünbül and Arslan (2006) was used to determine the pre-service music teachers’ self-efficacy beliefs. The scale consisting of 10 items has a single factor structure. The scale was prepared in 5-point Likert type (1-Strongly disagree, 5-Strongly agree). Exploratory factor analysis was performed to determine the construct validity of the measuring tool. A single factor structure consisting of 10 items was discovered as a result of factor analysis. The Cronbach Alpha coefficient calculated to determine the reliability of the measuring tool was reported as 0.74. The alpha coefficient calculated for the measuring tool in this study is 0.91.
Data Analysis

The scores obtained from the measurement tools were examined in the form of comparison based on faculty, gender, class and success variables. Parametric analysis techniques were used for comparisons. Independent sample t-test was applied to compare data according to faculty and gender. One-way analysis of variance was applied to compare the variables of class and levels of achievement.

Findings

This section includes the findings obtained by comparing the scores achieved by using measurement tools according to the variables of gender and academic achievement level, in accordance with the general purpose of the research. Table 1 shows that the average of self-efficacy scores was calculated as 36.35±9.60. Attitude score average was calculated as 44.38±13.50. Mean values show that the pre-service teachers’ attitudes and self-efficacy towards teaching profession are high.

Table 1. Descriptive Values of Pre-Service Music Teachers’ Attitude Scale towards Teaching Profession and Teacher Self-Efficacy Belief Scale

| Variable      | N  | Min. | Max. | \(\bar{X}\) | Ss  | Level |
|---------------|----|------|------|-------------|-----|-------|
| Self-efficacy | 262| 10   | 49   | 36.35       | 9.60| High  |
| Attitude      | 262| 12   | 60   | 44.38       | 13.50| High  |

Table 2 shows the results of the t-test regarding pre-service teachers’ self-efficacy beliefs and professional attitudes by gender.

Table 2. Comparison of Pre-Service Music Teachers’ Scores Based on Scales of Attitude towards Teaching Profession and Teacher Self-Efficacy Belief by Gender

| Variable      | Gender | N  | \(\bar{X}\) | Ss  | T     | p    |
|---------------|--------|----|-------------|-----|-------|------|
| Self-efficacy | Female | 156| 34.56       | 1.01| -2.52 | 0.012|
|               | Male   | 106| 3.81        | 0.84|       |      |
| Attitude      | Female | 156| 47.26       | 12.62| 4.26 | 0.00 |
|               | Male   | 106| 40.14       | 13.68|     |      |

Table 2 shows that there is a significant difference in the self-efficacy and attitude scores of the pre-service music teacher based on the gender variable (p<0.05). While the self-efficacy beliefs of male pre-service teachers were found to be high, the female peers’ attitude scores of towards teaching profession were significantly higher. One Way ANOVA (F Test) results related to self-efficacy beliefs and professional attitudes of pre-service teachers based on their levels of academic achievement are given in Table 3.

Table 3. Comparison of the Scores Based on Teacher Attitude Scale towards Teaching Profession and Teacher Self-Efficacy Belief Scale by Academic Achievement Level

| Variable      | Perceived academic achievement level | N  | \(\bar{X}\) | Ss  | F      | p    | Post-Hoc |
|---------------|-------------------------------------|----|-------------|-----|--------|------|----------|
| Self-efficacy | 1. High                             | 122| 39.09       | 7.37|        |      |          |
|               | 2. Moderate                          | 101| 34.73       | 10.36| 12.14 | 0.00 | 1>2, 1>3 |
|               | 3. Low                              | 39 | 32.00       | 11.30|        |      |          |
| Attitude      | 1. High                             | 122| 46.11       | 11.94|        |      |          |
|               | 2. Moderate                          | 101| 43.39       | 14.16| 2.87  | 0.047| 1>3     |
|               | 3. Low                              | 39 | 41.56       | 15.82|        |      |          |

Table 3 shows that there is a significant difference in self-efficacy and attitude scores according to the level of academic achievement variable (p<0.05). According to the Tukey test results, pre-service teachers with high and
very high academic success have significantly higher teaching self-efficacy beliefs compared to their peers with low academic achievement. However, it is seen that pre-service music teachers with high academic achievement have more positive teaching attitudes compared to low achievers. In accordance with the purpose of the research, the findings of the correlation and regression analysis regarding the relationships between Pre-Service Music Teachers’ Attitude towards Teaching Profession and Teacher Self-Efficacy Belief are given in Table 4.

Table 4. Pearson Correlation Coefficient between Pre-Service Music Teachers’ Attitude towards Teaching Profession and Teacher Self-Efficacy Belief

| Variables       | Attitude |
|-----------------|----------|
| r               | .561**   |
| p               | 0.000    |
| N               | 262      |
| p<0.01          |          |

Table 4 shows that there is a moderately positive and statistically significant relationship between self-efficacy beliefs and attitude scores (p<0.01). As the pre-service teachers’ self-efficacy scores increase, their attitude scores towards the teaching profession also increase. Table 5 shows that the regression model developed to determine the effect of pre-service music teachers’ self-efficacy on teaching attitudes is statistically significant (F=111.08; p<0.01). Approximately 30% of the change in the attitudes of the participants towards the teaching profession could be explained by their self-efficacy. Self-efficacy belief has a positive effect on attitude towards teaching profession (β=0.55; p<0.01).

Table 5. Results of Regression Analysis to Determine the Effect of Self-Efficacy Belief on Attitude towards Teaching Profession

| Variable       | B     | Standard error | β     | t     | p     |
|----------------|-------|----------------|-------|-------|-------|
| (Constant)     | 16.418| 2.744          | 5.984 | .000  |       |
| Self-efficacy  | .769  | .073           | .547  | 10.540| .000  |
| R=0.547        | R2=0.299| F=111.08      |       |       | p<0.01|

Discussion

In this research, where the pre-service music teachers’ attitudes and self-efficacy beliefs towards teaching profession are examined, it is found that the participants have high levels in the relevant variables. Another research finding is that pre-service music teachers’ attitudes towards teaching profession differ according to gender. According to the analysis, pre-service female teachers’ attitudes towards teaching profession were higher than their male peers. However, self-efficacy beliefs of pre-service male teachers were higher than their female peers. These findings are similar to the findings of research conducted by Asimaki and Vergidis, (2013), Oral (2004), Özdemir (2008), Richardson and Watt (2006) and Şen (2006). All these studies revealed that women perceive themselves as more prone to teaching profession and have positive attitudes compared to men. The findings of self-efficacy beliefs are similar to those of Karadağ, Baloğlu and Çalışkan (2009), Morgil, Seçken and Yücel (2004). According to Karadağ, Baloğlu and Çalışkan (2009), pre-service male teachers perceive themselves as more efficient in terms of using classroom management, teaching methods and strategies. In the study conducted by Morgil, Seçken and Yücel (2004), it was found that the pre-service male chemistry teachers’ self-efficacy beliefs were higher than the females participating in the study. Similarly, Akbulut (2006), Korkut and Babaoglan (2012) found that male teachers have higher self-efficacy beliefs.

Another finding in the research is related to the comparison of attitudes towards teaching profession and self-efficacy belief according to level of academic achievement. The self-efficacy beliefs and attitudes of pre-service music teachers with high academic achievement towards teaching profession are high. In addition, it was found that pre-service music teachers, who have a high/positive attitude towards teaching profession, have a higher level of self-efficacy belief. There is strong evidence for positive correlation between self-efficacy belief, attitude towards teaching profession, and academic achievement (Çapri & Çelikkaleli, 2008; Kara, 2020; Galleguillos & Olmedo, 2017; Rimm-Kaufman & Sawyer, 2004). In this regard, Bassi et al. (2007), Guskey (1988), Oğuz and Topkaya (2008) and Stankov et al. (2012) argue that students with high self-efficacy beliefs...
exhibit higher academic expectations, attitudes and achievements. Many studies have found that self-efficacy is related to high levels of academic participation and has close and positive relationships with students’ academic achievements. The research conducted by Poulou (2007) showed that self-efficacy is the strongest source of teaching. In addition, affective states from self-efficacy sources positively affect the attitude towards teaching profession. The perception of teaching profession as enjoyable, fun and respectable by pre-service music teachers can increase self-efficacy beliefs and attitudes towards teaching profession.

Conclusion

As a result, it was found that the pre-service music teachers’ mean scores of attitude towards and self-efficacy beliefs in teaching profession were high, women had high attitudes towards teaching profession, and men had high self-efficacy beliefs. This research has determined that pre-service music teachers’ positive self-efficacy beliefs in teaching profession and attitudes towards teaching profession are positively significant. Some suggestions for practitioners and researchers have been developed in the light of the findings. It was found that pre-service music teachers’ self-efficacy beliefs and attitudes differ according to the variables of gender and academic achievement. Qualitative studies could be carried out in order to analyze the source of differentiation regarding pre-service teachers’ self-efficacy beliefs. Similar research and comparisons could be made with prospective teachers studying in all teacher training programs.

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