TELL (Technology-enhanced Language Learning) in Iranian High Schools: A Panacea for Emotional and Motivational Detriments

Afsaneh Ghanizadeh*, Azam Razavi, Akram Hosseini

Imam Reza International University, Mashhad, Iran

Corresponding Author: Afsaneh Ghanizadeh, E-mail: a.ghanizadeh@imamreza.ac.in

ABSTRACT

Recent expansions in technological tools are shifting the direction of foreign-language education. A plethora of EFL research studies suggested that the benefits of TELL (technology-enhanced language learning) embrace a wide array of cognitive, motivational, and emotional attributes. English language teaching in Iran has recently undergone a host of rapid changes. The most apparent change was that the traditional grammar-based instruction left its place to communicative-oriented approaches. As a result, teachers needed extra aids to provide learners with the desired environments and foster exposure to authentic materials. In this regard, multimedia techniques (MTs) offer wide range of facilities in high speed and effective information processing. The purpose of this study was to examine the possible impact of MTs in high schools on students’ L2 learning attitudes, anxiety, and language proficiency. To do so, the researchers adopted a mixed-methods design integrating experimental and interview analyses. The sample of the study consisted of 124 female students from Motahhareh high school in Mashhd, a city in Northeast of Iran. Twelve items out of Dörnyei’s L2 Motivational Self-system scale were picked to measure attitudes to L2 learning and L2 anxiety. The Babel test was employed for gauging participants’ language proficiency. The sample was divided into two experimental and two control groups. The participants in experimental and control groups were provided with the same materials and instruction. The point of difference lay in the mode of presenting the materials in experimental group, i.e. via multimedia techniques. In the second phase, a semi-structured interview was conducted with a number of students in experimental groups to delve into their attitudes and feedbacks concerning MT-based instruction. The results indicated that there were statistically significant differences in students’ L2 learning attitudes, anxiety, and language proficiency in favor of the experimental group. In the light of the obtained results, the study presented a number of practical and accessible recommendations for implementing multimedia in teaching English.

Key words: Multimedia techniques, Mixed-methods design, Language proficiency, Attitudes, Anxiety

INTRODUCTION

Teaching and learning in academic domain are developing ever increasingly over the last decade. Active learning constituted the cornerstone of education in this era of academic change. “Active learning” incorporates a broad cluster of practices, group work or collaborative learning, negotiation of meaning, and technology-based tasks and activities. Different research studies suggest when students are actively involved in the process of learning they learn more effectively (Davis, 1993). Moreover, Wasley (2006) stated that, “Students who participate in collaborative learning and educational activities outside the classroom and who interact more via technological tools get better grades, are more satisfied with their education, and are more likely to remain in college” (p. 39). A synergistic learning environment, as opposed to an inert learning context, facilitates effective learning (Murphy, Mahoney, Chen, Mendoza-Diaz, & Yang, 2005).

During 1990’s, the use of various media expanded immensely and then the era of multimedia technologies (MTs) emerged (Ramaiah, 1998). With the fast development of science and innovation, the utilization of multimedia technology in teaching has provided a favorable setting for learners. Multimedia technology highlights integrating and manipulating of data using graphics, texts, video, images, and animation effect in the classrooms (Rana, 2013). According to Rana (2013), “teachers need to stop following the same old ways of teaching and experiment and acknowledge that the world is changing and we need education that augments that change” (p. 10). Consequently, it is imperative for language educators to be cognizant of the most recent and accessible tools and know what is appropriate in any given circumstances. Brooks
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(1997) defined multimedia technologies as combined use of different media, such as music, videos, slides, and lighting, especially for the purpose of education or entertainment.

Despite the endeavors of some researchers in multimedia learning and the resultant instructional motivation (e.g., Astleitner & Hufnagl, 2003; Keller & Suzuki, 2004; Song & Keller, 2001), findings are not very consistent. Hahne, Benndorf, Frey, and Herzig (2005) conducted a well-controlled study with online evaluation. Findings indicated that although students displayed favorable attitudes towards computer-based learning (CBL) at the onset, this feeling did not endure till the end of course, and learning outcomes were highly under the influence of students’ prior knowledge rather than their CBL use. Moreover, another study done by Hardré, Crowson, Xie, and Ly (2007) explored the data quality of questionnaire administration. Results showed that the paper-based group was better than both computer-based and web-based groups, and the affective responses of participants favored the paper-based mode over computer- and web-based modes. Their finding implied that utilization of multimedia technologies does not necessarily lead to high motivation of learners. Another study by Hoskins and Van Hooff (2005) about Web Course Tools (WebCT) found that only those students already highly-motivated and academically-able benefited from bulletin board use, suggesting that motivation and academic ability are determinants of achievement in hypermedia learning.

In the domain of language learning, Atiyyat (1995) conducted a study to explore the impact of multimedia technologies on English vocabulary learning and retention. The results substantiated the efficiency of MTs in both vocabulary learning and retention.

In addition, Warschauer (1997) suggested that multimedia technologies can create a relaxing and non-threatening environment for learners in which their motivation and self-esteem can be promoted and their anxiety can be reduced. Mayer (2001) recommended that when EFL learners establish connections between words and pictures than from words or pictures alone, they are able to create a more profound comprehension of words. In other words, using multimedia technologies in EFL classes can make communication and learning more effective (AI-Sehghayer, 2001). Moreover, MT via its visual and verbal presentation activate cognitive processing (Mayer & Moreno, 2003).

More recently, Rostami, Akbari, and Ghanizadeh (2014) corroborated the positive role of Smart Schools exposing students to smart boards, Power Point Presentation, and World Wide in enhancing EFL learners’ reading comprehension and the retention of reading materials.

In a study, Ghanizadeh and Razavi (2015) probed the impact of using multimedia in English high school classes on students’ language achievement and goal orientations (mastery, performance, and avoidance). The findings indicated that using multimedia elements has a positive and significant influence on learners’ language achievement as well as on the adaptation of mastery goals focusing on task-based or intrapersonal competence.

Ghanizadeh, Razavi, and Jahedizadeh (2015) carried out a meta analysis by reviewing recent studies in technology-enhanced learning (TELL). The results demonstrated that the benefits of technology in language classes are multidimensional and comprehensive encompassing cognitive, met-cognitive, and affective domains of learning.

So as can be seen, the advantages of multimedia over more traditional tools can unquestionably be found in its facility to present vast amount of information at reasonable cost and in its developed search functions. In L2 learning domain, the application of multimedia technology has beneficial purposes as cultivating students’ interest, promoting students’ communication capacity, widening students’ knowledge, and providing an insightful understanding of the target culture.

To sum up, the researchers assert that the studies presented in this section demonstrate a valid corroboration of the efficiency of multimedia input. The current study differs from the previous studies because it pivots around different aspects of English teaching according to MTs.

Over the last few years, English language teaching has embraced many rapid changes in Iran. Seemingly, as the result of one of these transformations traditional teacher-fronted approaches with the core attention to grammar and deductive learning gave its way to communicative-oriented approaches. Communicative approaches revolve around the authentic language use, active participation, interaction and contextualized language (Warschauer, 2000). This entails providing learners with authentic language use and contextualized forms. In line with this requirement, the advent of new technological facilities in the foreign language teaching expedited the prospects of attaining the objectives of communicative language teaching. Thus, with the weight of responsibility falling on the teachers and their work, the incorporation of MTs to language classes will play a facilitative role. It can assist teachers and teacher preparation programs move forward and guide them in raising the quality use of new methods of teaching English in Iran. It can also be argued that the integration of multimedia programs merging sounds and movement makes it natural to synchronize listening, speaking, reading, and writing in a single activity (Warschauer & Healey, 1998).

This study will set specific suggestions regarding the integration of technology into curriculum development and teaching materials. In addition, it offers ideas for appropriate development and use of teaching materials as well as practical classroom applications.

Based on the above introduction on MTs, the following research questions were posed and investigated in this study:

1. Does the application of MTs influence on student’s language proficiency in high school English classes?
2. Does the application of MTs influence on high school students’ attitudes to learning English language?
3. Does the application of MTs influence on students’ anxiety in learning English?
4. What are high school students’ attitudes toward MTs?

METHODOLOGY

The purpose of this study was to examine the impact of teaching English through MTs on students’ L2 learning attitudes, anxiety, and language proficiency. In addition, the
researcher employed a semi-structured interview to delve into students’ attitudes to MT.

Participants
Participants in this study were students in grade nine in Motahhareh high school, a north urban setting in Mashhad, one of the cities of Khorasan Razavi in Iran. They were female students and all aged between 14 and 15. The school was chosen because it was equipped with various facilities and spacious classrooms. It was expected that such accommodations would facilitate the implementation of the present research.

The participants were divided into four classes according to their language scores in grade eight of high schools. Randomly, the researcher selected two classes as control and two as experimental groups. The participants consisted of a total number of 124 students, 62 in experimental groups and 62 in control groups. They all had the same exposure to English through formal classes in grade seven and eight in high school. Of course, to ensure homogeneity of participants of the two groups, a Babel proficiency test was administered.

Instruments
Two instruments were utilized in the current study as follows:

The Dörnyei’s L2 motivational self-system questionnaire
To determine the impact of teaching English through MT on students’ L2 learning attitudes and anxiety, the researchers utilized Dörnyei’s (2005) L2 Motivational Self-system Questionnaire. The Persian version of the questionnaire translated and validated by Papi (2010) was utilized in the present study. The questionnaire contained two main parts: One part measured learners’ attitudes and motivation toward learning English and the other part measured learners’ anxiety. The items were of statement and question types; a six-point rating scale was used to measure with “not at all” anchoring at one end and “very much” anchoring at the other end.

Attitudes to learning English (six items): It deals with “situation-specific motives related to their immediate learning environment and experience” (Taguchi, Magid, &Papi, 2009, p. 75, as cited in Rostami & Ghanizadeh, 2015). Internal consistency reliability coefficients of the items computed via Cronbach’s Alpha was reported to be .65.

L2 Anxiety (six items): It is conceived as ‘the feeling of tension and apprehension specifically associated with second language contexts, including speaking, listening and learning. Internal consistency reliability coefficients of the items computed via Cronbach’s Alpha was reported to be .85 (Taguchi, Magid, &Papi, 2009, p. 75, as cited in Rostami & Ghanizadeh, 2015).

The Babel English language placement test
In order to determine students’ language proficiency level, the researchers used the Babel test, as a pretest and posttest. It is designed for rapid placement testing. The Babel English Language Placement Tests were closely based on the Nelson Quick check Placement Tests. The tests were designed for ease of administrability in observing stringent test design standards. The tests were in multiple-choice format and consisted of items measuring the recognition of correct responses to reading prompts, grammatical forms and lexical choices in context.

Procedure
The study was conducted over twenty –two sessions between December and March 2016. The participants were Motahhareh high school students in grade nine in Mashhad. The participants in experimental and control groups were provided with the same materials (the official textbook, i.e., prospect) and instruction. The point of difference lay in the mode of presenting materials in experimental group, i.e., via multimedia technique. The participants in the experimental groups comprising 62 students were introduced to multimedia teaching program. The program was a package that exposed learners to a variety of animations, cartoons, PowerPoint programs, songs, electronic stories in the form of text, graphics, videos and sound, all of which were selected according to the tenets of CLT. The time of instruction for control and experimental groups was also identical, i.e., two sessions weekly, forty-five minutes each and lasted for three months. The participants in the experimental and control groups had a pre-test (including English proficiency test, L2 learning attitudes, and anxiety scales) before the treatment began. At the end of the treatment, a post-test was administered to both groups. This phase employed a pre-test, a treatment, a post-test. Finally, a number of participants of the experimental group sat for an interview to unlace their attitudes towards their experience in the class. The design of the study is presented in Table 1.

In the present study, the researchers used multimedia materials as well as supplementary aids as comprehensible

| Table 1. The design of the study |
| Stage/activity |
| Pre-test |
| a) Checking out the student’s language proficiency at the beginning of the experiment in all groups through the Babel Test |
| b) Checking out the student’s attitudes and anxiety toward language learning at the beginning of the experiment in all groups through the Dornyei’s L2 Motivational Self-system Questionnaire. |
| Treatment |
| Implementing MTs in the experimental groups |
| Post-test |
| a) Checking out the student’s language proficiency at the end of the experiment in all groups through the Babel Test |
| b) Checking out the student’s attitudes and anxiety toward language learning at the end of the experiment in all groups through the Dornyei’s L2 Motivational Self-system Questionnaire. |
| Interview |
| Exploring the attitudes of participants in experiment group regarding MTs |
input to make English teaching process more effective and enjoyable. In so doing, a practical “three-step” method was posed. In the followings, the researchers delineate the procedure employed in integrating MTs to language classes.

**Step 1: Giving comprehensible input**

Interest is the most powerful motivation in students’ learning. Therefore, according to the real context and needs, the teacher used some interesting pictures, audio links, PowerPoint shows, animations, short films, and other forms of multimedia materials as supplementary aids to teach the functions of the book.

Compared with the information written on the blackboard, in the book, or expressed by teacher, these vivid and colorful pictures and multimedia materials were very attractive and students’ attention could strongly be attracted.

**Step 2: Producing comprehensible output**

Technology-based activities with their focus on social interaction and negotiation of meaning can be ideal aids to producing comprehensible output. So, each week one group of students generated a PowerPoint, text, a short film, or other forms of multimedia with the content being chosen by the learner from a previous lesson worked in the class. The teacher corrected the projects; the learners then presented their project and shared it with the others in the class. This implies that every week, there was a different speaking activity generated by the learners.

One of the researchers as the teacher of the class guided the students to do their project by introducing different sites such as, www.English for kids, www.pumpkins, www.easy English, which made it easy to download or have access to different videos, cartoons, and worksheets. Students collaborated on preparing for the presentation by using different information they gathered from different sites. Then they could present their projects in groups or individually. After gaining permission from the learners, the teacher typically shared the work they composed with the Tabadkan English group site (www.Tabadkan.English group.com).

**Step 3: Having role play**

According to different functions of the book, at the end of each unit, the students in experimental groups did a role-play which displayed their ability in a simulated situation for real communication.

**RESULTS**

### The Results of Pretest on Language Proficiency

To examine whether there is any significant difference between control and experimental groups regarding their English proficiency level, an independent samples t-test was run. As Table 2 shows, the mean scores of proficiency across groups are different: control (\(M=10.19, SD=2.98\)), experimental (\(M=10.44, SD=3.33\)). In other words, students in experimental group gained higher scores on proficiency test.

To see whether this observed difference is statistically significant, an independent samples t-test was run. Table 3 presents the results of t-test run on English proficiency level. As can be seen, there is not a statistically significant between the two groups regarding the degree of their proficiency \((t=-.442, \ p<.05)\). In other words, the two groups are homogenous regarding their English proficiency level before the study.

### The Results of Pretest on Attitudes to Language Learning

As Table 4 below shows, the mean scores of attitudes across participants in groups are different: control \((M=11.96, SD=1.87)\), experimental \((M=11.35, SD=2.08)\). In other words, students in control groups gained higher scores on attitude test.

Table 5 presents the results of t-test run on attitudes level. As can be seen, there is not a statistically significant between the two groups regarding the degree of their attitudes level \((t=1.72, \ p<.05)\). In other words, the two groups are homogenous regarding their attitudes level before the study.

### Table 2. Descriptive statistics of English proficiency level across control and experimental groups

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>Mean</th>
<th>Standard deviation</th>
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<tbody>
<tr>
<td>Pre-test proficiency</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>62</td>
<td>10.19</td>
<td>2.98542</td>
<td>0.37915</td>
</tr>
<tr>
<td>Experimental</td>
<td>62</td>
<td>10.44</td>
<td>3.33073</td>
<td>0.43735</td>
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</tbody>
</table>

### Table 3. Independent samples t-test showing the results of pretest on English proficiency

<table>
<thead>
<tr>
<th></th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
<th>Mean difference</th>
<th>Standard error mean</th>
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<tr>
<td>Pre-test proficiency</td>
<td>-0.442</td>
<td>122</td>
<td>0.660</td>
<td>-0.25473</td>
<td>0.57670</td>
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</table>

### Table 4. Descriptive statistics of attitudes level across control and experimental groups in pretest

<table>
<thead>
<tr>
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<th>Standard deviation</th>
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<tr>
<td>Pre-test attitudes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>62</td>
<td>11.9677</td>
<td>1.87274</td>
<td>0.23784</td>
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<tr>
<td>Experimental</td>
<td>62</td>
<td>11.3548</td>
<td>2.08898</td>
<td>0.26530</td>
</tr>
</tbody>
</table>

### Table 5. Independent samples t-test showing the results of pretest on student’s attitudes

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<th>df</th>
<th>Sig. (2-tailed)</th>
<th>Mean difference</th>
<th>Standard error mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-test attitudes</td>
<td>1.720</td>
<td>122</td>
<td>0.088</td>
<td>0.61290</td>
<td>0.35630</td>
</tr>
</tbody>
</table>
The Results of Pretest on L2 Anxiety

To check whether there is any significant difference between control and experimental groups regarding their anxiety level before implementing the treatment, an independent samples t-test was run. As Table 6 indicates, control (M=29.9, SD=2.47), experimental (M=30.58, SD=2.68).so, experimental groups have higher anxiety level than control groups in pre-test.

Table 7 presents the results of t-test run on L2 anxiety level. As table shows, there is not a statistically significant between the two groups regarding the degree of their anxiety level (t=-1.42, p<.05). In other words, the two groups are homogenous regarding their attitudes level before the study.

The Results of Posttest on Language Proficiency

To investigate the effect of multimedia on student’s language proficiency, the multimedia elements such as, animation, cartoons and PPP presentations were utilized in the experimental groups. The means of the both groups in the post-test were calculated. As it can be seen in Table 8, the mean of the experimental groups is 21.96 (M=21.96), and that of the control groups is 10.79, (M=10.79).

As the results of independent-samples t-test are represented in Table 9, there is a statistically significant difference between experimental and control groups (t= -16.97, p < .01). The effect size calculated via Cohens’ d was found to be 7.52 which is a large value according to Cohens’ index value. In other words, it can be concluded that using multimedia in teaching English leads to effective language learning.

Table 6. Descriptive statistics of anxiety level across control and experimental groups in pretest

<table>
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<th>N</th>
<th>Mean</th>
<th>Standard deviation</th>
<th>Standard error mean</th>
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<tbody>
<tr>
<td>Pre-test anxiety</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>62</td>
<td>29.91</td>
<td>2.47</td>
<td>0.31</td>
</tr>
<tr>
<td>Experimental</td>
<td>62</td>
<td>30.58</td>
<td>2.47</td>
<td>0.34</td>
</tr>
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Table 7. Independent samples t-test showing the results of pretest on student’s anxiety

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<tr>
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<th>t</th>
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<th>Sig. (2-tailed)</th>
<th>Mean difference</th>
<th>Standard error difference</th>
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</thead>
<tbody>
<tr>
<td>Pre test anxiety</td>
<td>-1.42</td>
<td>122</td>
<td>0.15</td>
<td>-0.66</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Table 8. Descriptive statistics of English proficiency level across control and experimental groups in post-test

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<th>N</th>
<th>Mean</th>
<th>Standard deviation</th>
<th>Standard error mean</th>
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<td>Post-test proficiency</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>62</td>
<td>10.79</td>
<td>4.04</td>
<td>0.51</td>
</tr>
<tr>
<td>Experimental</td>
<td>62</td>
<td>21.96</td>
<td>3.06</td>
<td>0.40</td>
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</table>

The Results of Posttest on Attitudes toward Language Learning

To investigate the effect of multimedia on student’s attitudes, the means of the both groups in the post-test were calculated. As Table 10 shows, the mean scores of attitudes level across participants in control and experimental groups are different: control (M=11.91, SD=2.12), experimental (M=30.64, SD=2.81). As table shows, experimental groups have higher attitudes level than control groups in posttest.

As the results of independent-samples t-test shows (see Table 11), there is a statistically significant difference between experimental and control groups (t=41.86, p < .01). The effect size calculated via Cohens’ d was found to be 11.91 which is a large value according to Cohens’ index value. In other words, it can be said that using multimedia in teaching English is more effective than using traditional methods of teaching.

Table 9. Independent samples t-test showing the results of post-test on English proficiency

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<thead>
<tr>
<th></th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
<th>Mean difference</th>
<th>Standard error difference</th>
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<tbody>
<tr>
<td>Post-test proficiency</td>
<td>-16.97</td>
<td>122</td>
<td>0.00</td>
<td>-11.17</td>
<td>0.65</td>
</tr>
</tbody>
</table>

Table 10. Descriptive statistics of attitudes across control and experimental groups in post-test

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<th>N</th>
<th>Mean</th>
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<tr>
<td>Post-test attitudes</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>62</td>
<td>11.91</td>
<td>2.12</td>
<td>0.26</td>
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<tr>
<td>Experimental</td>
<td>62</td>
<td>30.64</td>
<td>2.81</td>
<td>0.35</td>
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Table 11. Independent samples t-test showing the results of post-test on student’s attitudes in control and experimental group

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<th></th>
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<th>Sig. (2-tailed)</th>
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<tr>
<td>Post-test attitudes</td>
<td>-41.86</td>
<td>122</td>
<td>0.00</td>
<td>-18.72</td>
<td>0.44</td>
</tr>
</tbody>
</table>
As the results of independent-samples t-test shows, there is a statistically significant difference between groups (t=3.41, p < .01). The effect size calculated via Cohens’ d was found to be 0.61 which is medium according to Cohens’ index value. As Table 13 shows, using multimedia in teaching English is tend to reduce L2 learning anxiety.

**The Findings of Students’ Interview**

A semi-structured interview was conducted with four students of the experimental groups at the end of the semester. This interview was used to discuss the participants’ levels of motivation and anxiety, and any changes in their feelings and perceptions about the interactions in which they had participated employing MTs. The questions of the interview were composed by the researchers. All four students stated that they indeed became more interested, motivated, and therefore prone to learn when their teacher used some form of technology.

All students believed that multimedia teaching facilitated their learning of English. One of the students said: “I agree with the use of multimedia materials. By using these techniques, I feel more attached to the real world, communicatively. Other stated,” Using multimedia materials will progress my knowledge, I would be able to pass English course with motivation”.

Another student articulated: “I felt very enthusiastic towards multimedia teaching that would help me enhance my learning process and skills”.

One of them stated: “Multimedia teaching assisted me in making English language learning interesting and enjoyable”.

The other one said: “In traditional English class, I did not have enough attention to materials, but in MT class I’m interested in following the process of teaching and I comprehend to all points”.

Still another one mentioned: ”In MT class, I don’t understand the passing of the class time, but in traditional class the class time is boring”. She continued: “I think I feel greater satisfaction watching large pictures than squinting at smaller images from traditional teaching forms.”

As a conclusion, the students believed that they were more motivated when using computers, and learning enhanced when teacher integrated multimedia materials to class instruction. They regarded technology and the tools it provided as having a facilitative effect on their performance.

**DISCUSSION AND CONCLUSIONS**

As stated earlier, technology has gained a vital status in fulfilling the prerequisites of the new education system in teaching English with its specific focus on communication in the official schools in Iran. Nevertheless, there is a dearth of research attesting to the technological dimension of English language classes in Iran under the influence of CLT integration in public schools. This study aimed at providing empirical evidence for the current state of technology use in English language classes of high schools. In particular, it probed the impact of MT on enhancing L2 learning attitudes, diminishing L2 anxiety, and improving L2 achievement.

The findings substantiated the facilitative role of MTs in promoting motivational and emotional facets of L2 learning as well as L2 learning itself. This finding coincides with previous research. As Hanson (1995) and ChanLin et al (2006) have pointed out that using technology in teaching English will raise student’s motivation, diminish their debilitative feelings, and increase the chances of attaining effective learning. This finding is also in line with identical research in L2 domain (Rostami, Akbari, & Ghanizadeh, 2015, Ghanizadeh & Razavi, 2015, Razavi, Ghanizadeh, & Akbari, 2016). In addition, Reynolds, Treharne, and Tripp (2003) demonstrated the effectiveness of ICT use in raising students’ motivation and attitudes towards science. Furthermore, according to Marzban (2010), one of the most important aspects of using multimedia technologies in the classroom is that learners are free from anxiety and there is no peer pressure which inhibits them from language learning.

On this era, Iranian EFL educators are taking major steps towards utilization of MT in educational environments. With daily development of MTs, instructors confront with more challenging responsibilities in teaching. Teachers should first determine what results they are attempting to accomplish and after that select well-suited elements for these outcomes. Hence, for effective utilization of MTs, teachers should first know the exact needs of the learners. Teachers can incorporate MTs into their classroom by detecting each student’s individual needs learning styles, coordinating teaching methods to learners’ multimedia learning for troublesome tasks, reinforcing weaker learners through access to multimedia learning by making tasks less demanding (Pourhosein Gijakjani & Ahmadi, 2011). In other words, MTs can create a multiple learning opportunities for learners to improve their learning effectively.

Teacher should be cognizant that multimedia that is effective in learning and teaching doesn’t merely involve using multiple media together, but implementing media...
reflectively in ways that take advantage of the characteristics of each individual medium and generalize it to learning and teaching experiences. Teachers should first decide upon the objectives and their teaching approach and only then opt for the type of technology which best suits each learning occasion. Subsequently, they should ensure that the multimedia elements are synchronized and fitted properly in line with learning objectives and students’ needs and preferences. To sum up, the findings of the present study may help teachers to take the necessary steps to change learners’ negative attitudes and to foster their motivation using technology in a certain manner. Additional research is required to determine which multimedia technologies have greatest impact on learners’ motivation and their achievement.

REFERENCES


