Application of Information and Communication Technology Tools for English Language Teaching in an Omani Context

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Abstract

ICT (Information and Communication Technology) has become a significant domain of learning in the field of teaching and learning. Recently, educators have shown overwhelming interest in incorporating computers and Internet to improve the effectiveness of education at informal and formal levels of Education. ICT with its numerous tools has immense potential in the field of English Language Teaching (ELT) in terms of facilitating the teaching and learning of listening, speaking, reading and writing skills. The article summarizes some of the merits and the demerits of the use of ICT tools, and the concept of using ICT in ELT based on the researcher’s review of recent studies. It also highlights the findings from the researcher’s own study on the effectiveness of the application of ICT tools on the EFL (English as Foreign Language) writing performance of Omani EFL learners. The study focuses on effectiveness of Moodle Forum treatment on the quantity of EFL written output in terms of number of words, Language Units and Clauses. The study is considered to be significant in the context of Omani learners being exposed to increased ICT intervention in their social and academic life. A quasi-experimental study was conducted among diploma level students (N=28) at Al Musanna College of Technology under Ministry of Manpower, Oman. The findings and analysis of both quantitative and qualitative data revealed that Moodle Forum intervention can have significant impact on the participants’ EFL written output. The study recommends that students and teachers should integrate ICT tools in ELT appropriately.

Keywords: ELT, ICT, Moodle, Oman, writing,
Introduction

Information and Communication Technology has impacted every aspect of modern life such as learning, working, socializing, playing and so on. This has revolutionized the way the youth access information, communicate, give and take help, and learn. According to Yunus, et al. (2010) ICT integration is a trend in the modern educational system. Modern day tech-savvy youth use technology in their lives for many purposes such as researching or studying, shopping, socializing and gaming (Yılmaz & Orhan, 2010). ICT promotes better economic productivity and exchange of information enabling effective people-participation. Considering the immense potential of ICT in economic, social and educational advancement, the Governments and World bodies initiated ICT implementation in almost all fields (UNESCO, 2013; Hu & Webb, 2009). As a result, the growth of ICT use worldwide has increased significantly over the years. For example, the personal use of Internet in 2001 was 8%, but it increased sharply in 2013 i.e. 39%. 15% of mobile subscription in 2000 rose to 96% in 2013; wired broadband and mobile subscriptions increased from 5% and 4% in 2007 to 10% and 26% in 2013 respectively (ITU, 2013-World Statistics). This increase in the use of ICT has positively influenced the different areas of modern Education. Robertson and Al-Zaharani (2012) in their study in the field of education found that the participants have exposure to computers, training and increasing access to resources; and ICT will continue to increase motivation, computing habits of students and teachers in the field. As a result of increased use of ICT in education, a number of educational software is being produced to facilitate the learners’ language learning and practicing (Dettori & Lupi, 2010).

Definition

ICT (Information and Communication Technologies) can be generally defined as technologies that compute, transmit, communicate and store information (Hilbert, 2011). In the context of this paper, ICTs (Information and Communication Technologies) is referred as a “diverse set of technological tools and resources which are used to communicate, and to create, disseminate, store, and manage information.” (Ghasemi & Hashemi, 2011). The internet, computers, telephony and broadcasting technologies (television and radio) and various other tools (including recent social media and mobile technology) are included in these technologies. Some of these technologies such as radio and television are older than the new internet based technologies.

Technologies that communicate through the use of computers, Internet and telephone have become the focus of most of educational studies in recent times. The modern world is provided with a vibrant Information and Communication Technology (ICT) including Broadband, wireless and mobile computing consisting social media such as social networking sites, blogging and micro-blogging (Haythornthwaite & Kendall, 2010). ICT with education technology consists of different software and hardware (Kohnke, 2012). Education technology in ICT, therefore can be defined as educational practice based on pedagogical theory, development and administration of resources, process, evaluation and implementation. The four requirements of ICT in educational institutions are the shared vision of administration and staff, the access to ICT, the technical assistance and the staff development (Kohnke, 2012) in terms of the importance of ICT, the easy ICT access for students and staff, and the maintenance of ICT labs and devices, and the ICT training and handling.

ICT therefore is an expression of different electronic services, internet (network), software (applications) and devices (hardware) for communication. It’s an all embracing concept...
consisting of all communication gadgets of modern social life and their using with an aim of promoting information exchange through the process of communication (Vodopivech & Samec, 2012). Thus, ICT (Information and Communication Technology) has become an integral part of modern education including English Language Teaching and Learning (ELTL).

### Different Information and Communication Tools

Many EFL studies (So, Choi, Lim, & Xiong, 2012; Mama-Temotheou & Hennessy, 2013) revealed that use of ICT tools in language learning has positive outcomes such as better access to information, providing efficient resources, and increased learning and motivation. Researchers therefore have shown an overwhelming interest in using different ICT tools in facilitating ELL (English Language Learning). Kizil (2011) in her study on the use of ICT in ELL, for instance, found that commonly used ICT tools are the internet, presentation tools, software for processing texts and structure drilling, and communicative language tasks; the participants of the study had positive attitude towards using ICT in EFL teaching and learning, and they regarded ICT integration in education was more advantageous than traditional methods of instructions.

Many other studies (Table 1) examined the effectiveness of ICT tools that range from email (Evans, 2012; Liu, 2011), Wikis, blogs to Chats (Alshumeimeri, 2011; Miyazoea, & Anderson, 2012; Alwi, Adams, & Newton., 2012; Chen, 2012). Podcasting (Rahmi & Katal, 2012), tablets – ipads/ipods and mobile phones (Martin & Ertzberger, 2013; Hu, Hwang, & Chang., 2013) are other latest ICT tools for mobile learning. Moreover, social media such as Facebook and Youtube (Ghasemi, 2011; Lairea, Casteleyn, & Mottart., 2012; Alias, Manan, Yusof, & Pandian., 2012) are also used in ELT. The study (Gitsaki & Alabbad, 2012) on mediated learning revealed how the use of ICT tools positively impacted EFL students’ attitude towards ELL (English Language Learning) through technology, and its impact on their language skills. All these studies demonstrate the significance of different ICT tools in facilitating learning and practice of language skills.

### Table 1. ICT tools

<table>
<thead>
<tr>
<th>ICT Tools</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet, Software – text processing, Presentation tools</td>
<td>So, Choi &amp; Xiong, 2012; Mama-Temotheou &amp; Hennessy, 2013</td>
</tr>
<tr>
<td>E-mail</td>
<td>Liu, 2011; Evans, 2012</td>
</tr>
<tr>
<td>Chat, Forums, Blogs and Wikis</td>
<td>Alwi, et al., 2012; Miyazoea, &amp; Anderson, 2012; Chen, 2012; Alshumeimeri, 2011</td>
</tr>
<tr>
<td>Podcasting</td>
<td>Rahmi &amp; Katal, 2012</td>
</tr>
<tr>
<td>Youtube and Facebook</td>
<td>Ghasemi, 2011; Alias, et al., 2012; Laire, et al., 2012</td>
</tr>
</tbody>
</table>

### Advantages of ICT

Following points highlight some of the advantages of ICT with reference to EFL/ESL teaching and learning.

- ICT can be used for pleasure, study and work purposes. EFL/ESL learners can use it for
pleasure in terms of enhancing language skills such as listening, speaking, reading and writing to supplement their classroom language use.

- The use of ICT motivates the learners enabling them do better in their pursuit of knowledge and skill (Punie, 2007) in a new learning environment and experience. This helps learners engage in using authentic language and linguistic resources.

- The language learning through ICT not only enhances the linguistic skills, but also the learner’s competence in using technology, which is essential for future employment, higher education, personal development and their role in the modern society (Markovac and Rogulja, 2009). English language proficiency with technical skills increases employability of the graduates.

- ICT eliminates geographical barriers to learning. Students can access information and resources from all parts of the world resulting in increased learning. ICT tools such as Chats, Online Forum Discussions (OFDs), etc. would open opportunities for cross-cultural and continental interaction in the target language.

- ICT facilitates student centered autonomous learning in the absence of face-to-face teaching and learning. Students can study anytime and anywhere according to their needs. This facilitates independent use of EFL/ESL.

**Disadvantages of Using ICT**

Following points summarize some of the disadvantages of ICT usage in general and ICT in ELT in particular.

- Some scholars (Kirkorian, Wartella and Anderson, 2009) believe that children study better from real-life experiences than from the learning through ICT. The use of ICT limits the learners only to a virtual learning platform away from classroom learning with their peers.

- Young learners are vulnerable and they might be negatively influenced by the numerous contents that they are exposed through ICT. The matured adults or parents have no control over the vast amount of information available to the learners through ICT (Roberts, et al., 1999). ELT practitioners should exercise discretion in involving learners in ICT mediated language learning.

- ICT often encourages passive learning without being actively involved with others in the learning process. The learners spend most of the time in a virtual learning environment resulting in limited personal socio-cultural interaction. This limits the learners’ interpersonal relationships and interactions (Bushati, et al, 2012).

- ICT can cause ‘digital gap’ among the learners. The learners who have more accessibility to ICT would out-do other learners who have less exposure to ICT. Similarly, the learners’ familiarity with the ICT tools also affects their learning that the learners who are more skilled in the use of ICT tools tend to take better advantage of learning target language than the learners who are not equally skilled.

- Learners may focus more on technical skills than the learning that is the primary goal of ICT usage especially in ELT. EFL/ESL learners therefore may not be able to utilize the language learning time and effort as they might be distracted by the technical elements in the ICT usage.

- Teachers may not be well equipped and updated with the use of ICT tools resulting in slow teaching and learning process. This will also cause communication gap between the
learners and teachers. EFL/ESL professionals especially the teachers should be trained and updated regularly in using ICT tools that could effectively be used in EFL/ESL teaching and learning.

Caution in using ICT

ELT professionals and EFL/ESL learners therefore should be cautious in using ICT considering its merits and demerits. Jones and Cuthrell (2011) while writing about the positive aspects of ICT tools in EFL teaching and learning, he warns the participants about the quality and content of the ICT materials, the vastness of the resources and the copyright law. They suggest that teachers should critically and carefully choose ICT tools and resources to make use of them in the classes in promoting language learning. However, the significance and relevance of ICT in modern ELT is unquestionable as different instructional methodologies for using ICT tools and online resources are made available to teachers and students (Snelsion, 2011). ICT with all its perceived disadvantages therefore can be used to supplement traditional classroom teaching providing examples of authentic use of the foreign language in terms of an integrated framework of all skills – Listening, Speaking, Reading and Writing.

ICT Penetration in Oman

As this study is designed in an Omani context in Arabian Gulf using ICT in EFL, an understanding of ICT use in the region would give a better insight into its importance. The use of Internet and mobile subscriptions increased in Arab countries in general and Oman in particular. For example, In Arab Countries, the Internet usage rose from 8% in 2006 to 38% in 2013; and the mobile subscriptions also increased from 39% to 105% in the same period (ITU, 2013). According to the statistics (TRAO, 2013) Oman has 146% of mobile connection including 98% of its population; the fixed line connection per household is 82%; the active mobile broadband subscription is 53%; and 32% of fixed internet subscription. This accounts for a fast growing trend in using ICT in Oman.

ITA (2012) in its survey on ICT and higher Education in Oman found that 62% of tertiary educational institutions in Oman offer degrees in ICT specialization. The fixed broadband internet connectivity and LAN in tertiary level educational institution in Oman is 99%; and Wifi and email are provided to staff and students in 88% of Omani institutions of higher Education. The survey also found that 90% of Omani employees in those institutions have ICT skills. However, According to Marzban (2011) the use of ICT is a new undertaking in the region; and teachers and educationalists are prompted to give much attention to the importance of integrating ICT in EFL teaching and learning because of its fast growing popularity.

A Study on ICT Application in an Omani EFL Writing Context

Based on the literature review and the researcher’s own exposure to ICT in EFL teaching and learning in Sultanate of Oman (as the researcher is a resident in Oman) an empirical study was undertaken using Moodle as an ICT platform with special focus on Writing. The need for the study is evident from the lack of literature in the field of ICT focusing on writing in EFL. Al-Aufi and Al-Azri (2013) found that less study has been done to find the effectiveness of ICT in language teaching and learning with a special emphasize on writing; and they also observed that the ICT integration into language learning could increase the information literacy of learners in Oman. Moreover the learners are found exposed to ICT in their daily social life and academic life in the region. The lack of relevant studies on using these ICT tools in developing writing
skills therefore may deprive language teachers in Oman to comprehend possible areas and causes of ICT that may impact their learners’ EFL skills in general and writing performance in particular.

**Research Objective and Questions**

The study was undertaken with the objective of finding out the effectiveness of using ICT tools for writing on the quantity of EFL written output and the learners’ attitude towards ICT intervention in EFL writing. This section therefore focuses on the effectiveness of ICT mediated writing treatment on the linguistic quantity of EFL written output and learner perception on the treatment. Based on the objective, the following research questions with their null-hypothesis are formed to investigate the effectiveness of the ICT mediated writing treatment on the EFL written output.

1) Is there a significant difference between the quantity of words in EFL written output before and after the ICT mediated writing treatment?
2) Is there a significant difference between the quantity of Language T-Units in EFL written output before and after the ICT mediated writing treatment?
3) Is there a significant difference between the quantity of clauses in EFL written output before and after the ICT mediated writing treatment?
4) What are the attitudes of the participants towards ICT mediated EFL writing treatment?

**Hypothesis**

The following null-hypotheses were formed to test the significance of the findings of the study.

1) There is no significant difference between the quantity of words in EFL written output before and after the ICT mediated writing treatment.
2) There is no significant difference between the quantity of Language T-Units in EFL written output before and after the ICT mediated writing treatment.
3) There is no significant difference between the quantity of clauses in EFL written output before and after the ICT mediated writing treatment.

**Methodology and Study Design**

A comparative experimental study design was set up. The students were enrolled in an e-learning course on Moodle. The researcher used the Forum tool on Moodle as the ICT tool for the study. 10 topics (Appendix A) were listed on the page for the students to write/discuss electronically following the teacher’s instructions. The topics are selected to promote argumentative writing, and they were relevant to the learners’ academic and social context. For example, the students were asked to write electronically about students’ using mobile phone in the class, working Omani women, sports in Omani colleges and so on.

The participants are 28 Omani EFL learners at the college level, whose mother tongue is Arabic. The participants are selected randomly according their original section grouping by the administration. All the participants have completed their certificate level English writing course, and they are admitted to their Diploma level. The students are aged between 18 – 23, and they are a mixture of males and female participants who are 15 and 16 in number respectively. All the participants have belonged to a homogenous group of native Arabic speakers who are learning EFL writing as part of their Diploma level course in Engineering and IT (Information Technology). All the participants are equally exposed to different ICT uses at the college.
commencing from their foundation level courses. All of the participants hail from a semi-urban background that has satisfactory ICT penetration. All of them have smart phones with internet connectivity at college and at home.

A pretest was administered for the students before their writing using Moodle forum tool as the ICT tool. The pretest was a writing task on selected topic for 40 minutes closely following the students’ level exit writing exam (LEE) model (administered in the College). The test-format used in the pretest and posttest assesses the learners’ argumentative writing ability in EFL. Argumentative essay writing is one of topics taught and practiced in the course. The students should learn to express their arguments and counter-arguments on the topics given in an essay format. Since the discussion tasks on the forum treatment are designed to facilitate the participants to express their opinion or arguments on selected topics, and the learners are prepared for argumentative essay writing in their LEE, the choice of the pretest format is quite suitable to the study.

After the pretest, the students were given training for two weeks on how to use the forum tool for interactive electronic writing using Moodle Forum. The training includes assigning the learners a computer lab equipped with one system for each one. The participants with the help of a technician are demonstrated how to switch on the system, log-in, and log out of their Moodle course. The teacher assigned with the help of the technician has explained various features of Moodle forum, and how the participants can post their views and respond to their friends’ post. Appendices A includes screen shots of the list of topics uploaded on the Moodle course page; and some of the forum samples of students’ writing. The training has helped the participants know and practice how to use Moodle forum tool for writing. From the third week onwards and the learners were asked to involve in a meaningful Moodle Forum mediated Forum writing for 40 minutes on every Thursday for a period of one semester (10 weeks) on given topics on their own. The learners discussed or wrote online about current topics such as women education, use of mobile phones in classrooms, sports in colleges, etc., which are relevant to their social and educational context, and thus finding it more meaningful and purposeful in contributing to the discussion. The students were regularly given feedback on their writing on Moodle forum. After the treatment period, a post-test was conducted following the same pretest criteria. The quantitative (written output through tests) therefore has been collected through pretest and posttest. The quantitative data was analyzed using descriptive and inferential statistics using SPSS (2.0). The paired sample t-test was used to analyze the quantitative data.

**Test Instrument**

As mentioned above, the researcher used writing tasks on selected topics based on the learners’ Level Exit Exam (LEE) criteria for pretests and post-tests. The learners were given 40 minutes each for the pre-test and post test to write about the topic argumentatively or expressing their opinions. The sample topics were *road accidents in Oman, use of telephone in classrooms*, etc.

**Writing Measure (Hirotani, 2009)**

The following writing measure (Hirotani, 2009; Table 2) was used to measure the quantitative data - results of pre-test and post-test in terms of the Quantity of EFL written output (Appendix B).
Table 2. Writing Measure (Hirotani, 2009 (Adapted))

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Output</td>
<td>Word</td>
<td>Number of words</td>
</tr>
<tr>
<td></td>
<td>Language Unit</td>
<td>Number of T-Units</td>
</tr>
<tr>
<td></td>
<td>Clause</td>
<td>Number of Clauses</td>
</tr>
</tbody>
</table>

Many researchers have considered language output as the quantity of language produced in terms of number of words, language units (T-Units) and number of clauses (Hirotani, 2009). Egi (2010; p.8) defines that “tokens are number of words in a text or corpus; and types are number of different words”. A T-unit refers to “minimum terminable unit” (Nagy & Beers, 2007: p.188), which includes both an independent clause and any number of dependent clauses; and while measuring the quantity, the number of clauses is separately counted.

**Interview**

A semi-structured interview was conducted to collect qualitative data to get a better insight into the participants’ attitude towards Moodle Forum treatment. About 10 questions covering different aspects of the treatments such as the learners’ feeling, difficulty and challenges, language improvement, technical problems were initially prepared and used for qualitative data collection. The qualitative method enabled the researcher to understand the learners’ attitudes towards the Forum intervention in EFL writing. The qualitative method of data collection is found to be significant because the researcher could not have understood the attitudinal aspects of the treatment through the quantitative data collection alone. Three interviewees were selected based on their performance in the Moodle Forum treatment. S1 (Student 1) can be considered as one of the best participants and other two (S2, S3) are of moderate as observed by the researcher. The interview was recorded, transcribed, coded into main categories and subcategories, and interpreted.

**Findings**

A paired Samples T-Test was conducted to compare the difference between various dependent variables in the Forum mediated writing pretest and the posttest in terms of quantity in accordance with the research questions. This section for the analysis of the finding of the study focuses only on the quantity of language output as a result of Moodle Forum intervention as an ICT tool in writing.

**Question 1:** Is there a significant difference between the quantity of words in EFL written output before and after Moodle-forum writing treatment?

The paired Samples descriptive Statistics (Table 3) showed that there was a significant difference in the mean scores for the number of words in the pretest (M = 181.03, SD = 74.50) and the post-test (M = 274.57, SD = 55.39); and t (27) = -7.478, p = 0.000 (p < .05) (Table 4). These results suggest that electronic writing (synchronous) does have an effect on the quantity (number) of words in the written output. Particularly, the study result revealed that when Omani EFL learners involve in Moodle-forum mediated writing (online forum discussion synchronously), the number of words increases in their written output.
Table 3. Descriptive statistics for the quantity of words

Paired Samples Statistics

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>N</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Words (Pre-test)</td>
<td>181.0357</td>
<td>28</td>
<td>74.50</td>
<td>14.08</td>
</tr>
<tr>
<td>Number of Words (Post-test)</td>
<td>274.5714</td>
<td>28</td>
<td>55.39383</td>
<td>10.47</td>
</tr>
</tbody>
</table>

Table 4. Statistical Test: Number of Words

Paired Samples Test

<table>
<thead>
<tr>
<th>Paired Differences</th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
<th>95% Confidence Interval of the Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>Std. Deviation</td>
<td>Std. Error Mean</td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>Words (Pre&amp;Posttest)</td>
<td>-93.54</td>
<td>66.19</td>
<td>12.51</td>
<td>-119.20</td>
</tr>
</tbody>
</table>

Question 2: Is there a significant difference between the quantity of Language T-Units in EFL written output before and after Moodle Forum mediated writing treatment?

The paired Samples descriptive Statistics (Table 5) showed that there was a significant difference in the mean scores for the number of language T-Units in the pretest (M = 22.39, SD = 8.39) and the posttest (M = 31.79, SD = 7.94); t (27) = -5.510, p = 0.000 (p < .05) (Table 6). These results suggest that electronic writing (synchronous) does have a statistically significant effect on the quantity (number) of language T-Units in the written output. Particularly, the study result revealed that when Omani EFL learners involve in Moodle Forum writing asynchronously), the number of language T-Units increases in their written output.

Table 5. Statistics: Quantity of Language T-units

Paired Samples Statistics

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>N</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language T-Units (Pre-test)</td>
<td>22.39</td>
<td>28</td>
<td>8.39</td>
<td>1.59</td>
</tr>
<tr>
<td>Language T-Units (Post-test)</td>
<td>31.79</td>
<td>28</td>
<td>7.94</td>
<td>1.50</td>
</tr>
</tbody>
</table>
Table 6. Statistical Test: Quantity of Language T-units
Paired Samples Test

<table>
<thead>
<tr>
<th>Paired Differences</th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-Units (Pre&amp;Post tests)</td>
<td>9.39</td>
<td>9.02</td>
<td>1.70</td>
</tr>
<tr>
<td>Std. Deviation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95% Confidence Interval of the Difference</td>
<td>-12.89</td>
<td>-5.90</td>
<td>-5.510</td>
</tr>
<tr>
<td>Lower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Question 3:** There is no significant difference between the quantity of clauses in EFL written output before and after Moodle Forum mediated writing?

The paired Samples descriptive Statistics (Table 7) showed that there was a significant difference in the mean scores for the number of clauses in the pretest (M = 13.82, SD = 6.13) and the posttest (M = 23.18, SD = 8.48); and t(27) = -5.309, p = 0.000 (p <.05) (Table 8). These results suggest that Moodle-forum mediated EFL writing has a statistically significant effect on the quantity of clauses in the written output. Particularly, the study result revealed that when Omani EFL learners involve in Moodle forum writing, the number of clauses increases in their written output.

Table 7, Statistics: Number of Clauses
Paired Samples Statistics

<table>
<thead>
<tr>
<th>Paired Differences</th>
<th>Mean</th>
<th>N</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clauses Pre-test</td>
<td>13.82</td>
<td>28</td>
<td>6.13</td>
<td>1.16</td>
</tr>
<tr>
<td>Clauses Post-test</td>
<td>23.18</td>
<td>28</td>
<td>8.48</td>
<td>1.60</td>
</tr>
</tbody>
</table>

Table 8. Statistical Test: Quantity of Clauses
Paired Samples Test

<table>
<thead>
<tr>
<th>Paired Differences</th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clauses (Pre&amp;Post tests)</td>
<td>-9.36</td>
<td>9.33</td>
<td>1.76</td>
</tr>
<tr>
<td>Std. Deviation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95% Confidence Interval of the Difference</td>
<td>-12.97</td>
<td>-5.74</td>
<td>-5.31</td>
</tr>
</tbody>
</table>
What are the attitudes of the learners towards electronic writing?

The interview found that the participants were generally very positive about ICT mediated writing (Moodle forum writing). For example one of the interviewees (Participant 1) said that I am so happy because it’s easy, and it helps to build the future so fast, and I think the other reason that makes me happy: I love electronic things.” Another interviewee (Participant 2) remarked “I feel comfortable, and I feel pleasure that we used another type of writing; we changed the routine of the old type of writing which is by paper; for that I feel I used something that will ..I will get benefit..” However, the participants felt some challenges too. One of the interviewees (Participant 3) said “Bad feeling. Because I lose everything, every information”.

To summarize the attitudes, the interview analysis helped the researcher to find out themes such as motivation, newness of ICT and its Challenges. Students were motivated to use the new type of writing for their passion for ICT devices such as computers, laptops, ipads, smartphones, etc. The learners also felt that ICT mediated writing, is new to them compared to the traditional paper-and-pen writing, and they felt some practical value in pursuing Moodle forum writing. Nevertheless, the words of the interviewees conveyed that ICT mediated writing posed some difficulties or challenges to them; for example, the abrupt deleting of what the learners write, their lack of computer or keyboard skills and the malfunctioning of the system while writing..

Discussion

The study found that ICT mediated writing treatment has statistically significant effect on the EFL learners’ writing performance in terms of quantity – number of words, number of Language T-units and number of clauses. One of the reasons could be their motivation to write using ICT tools.

The qualitative data collected through interview was analyzed and found that students were more motivated in the interactive ICT mediated writing tasks such as Moodle forum written exchange in EFL teaching and learning for its newness and students’ liking for electronic gadgets such as smart phones, tablets, laptops, etc. The learners had a very positive feeling for the use of the Forum as the ICT tool. The interactive element in the ICT mediated Forum writing distinguished it from individual ICT mediated asynchronous writing. The learners expressed their interest to participate more in ICT mediated writing sessions in their EFL courses.

Limitation of the study

The study included only 28 participants from Al Musana College of Technology, and it lasted only for a period of one semester i.e. about 10 weeks. The study did not consider the demographic distribution of the participants that no separate analysis has been done to see whether the forum treatment has a different effect among males versus females. The cultural and social implication of the use of ICT in ELT could not be studied. The study was mainly focused on the effect of using Moodle Forum on the quantitative EFL written output of the selected participants and their attitudes towards the treatment. A different study including more participants from different parts of the country may yield a different result.

Conclusion and Recommendations

Based on the review of different works on ICT in ELT and the findings of the study, one could conclude that ICT integration can enhance the effectiveness of English Language Teaching and Learning. Though it cannot replace the traditional face-to-face curriculum, it can effectively
supplement it. The use of ICT and its different tools are more appealing to modern day technology oriented learners who are very much used to advanced smart devices such as tablets and smart phones with their numerous applications unlike any other learners of the past. Studies (Vodopivech & Samec, 2012) have revealed that ICT usage can only benefit the learners more than it can disadvantage them. The stake holders and policy makers therefore should give enough emphasis on the integration of ICT in language learning by creating appropriate policies and ensuring ICT infrastructure across the curriculum. Educational institutions should be well equipped with ICT devices and LMS (Learning Management Systems) to meet the learning needs of students. The learners should get free and easy access to ICT tools in their language learning process minimizing the digital gap i.e the social economic inequality in accessing and using ICT tools (Harvey, 2014). The educational institutions world wide, in Oman and Middle East in particular should incorporate ICT in EFL teaching and learning more effectively. The teachers and students should be given due training in the use of keyboard typing, LMS (Learning Management System) such as Moodle, Blackboard, etc. This will not only encourage the learners’ ELL (English Language Learning), but also equip the learners to meet ICT demands at job markets.

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References


Application of Information and Communication Technology Tools

Jose & Abidin


Mama-Timotheou, M., & Hennessy, S. (2013). Developing a typology of beliefs and practices
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<th>Application of Information and Communication Technology Tools</th>
<th>Jose &amp; Abidin</th>
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**APPENDIX A**

**Screenshot of Moodle Forum Writing topics & Sample Forum Writing**
APPENDIX B
Quantitative Data Collection Sheet (Sample)

<table>
<thead>
<tr>
<th>Participant’s Name</th>
<th>Participants’ Code</th>
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<tbody>
<tr>
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<td>Sub-Category</td>
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<tr>
<td>Language Output</td>
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</tr>
<tr>
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<td>Number of T-Units</td>
</tr>
<tr>
<td>Clause</td>
<td>Number of clauses</td>
</tr>
</tbody>
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