The Impact of Teachers' Age, Gender and Experience on the Use of Information and Communication Technology in EFL Teaching

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Abstract

The integration of information and communication technology (ICT) into language teaching and learning depends on many factors. Some of these factors are associated with teachers. Teachers play a crucial role in the integration of ICT. This study investigates the impact of teacher's age, experience, and gender on the integration of ICT into language teaching. This study utilized a mixed-method approach of investigation, which applies both qualitative and quantitative methods. The instruments used for data collection were a survey and an interview. The survey was administered to 46 in-service EFL teachers working at Najran University, Saudi Arabia. Ten out of these participants were interviewed. The results indicate that there is no significant difference in using ICT between the two groups of teachers according to their age and experience. However, the results indicate that there is a difference between male and female teachers in using ICT in language teaching. Female teachers reported less use of ICT in their instruction than male teachers. Some suggestions are offered to improve the situation of ICT integration into language learning in EFL contexts.

Keywords: technology integration, Information and Communication Technology (ICT), Computer-Assisted Language Learning (CALL), teachers' experience, gender

1. Introduction

Technology has a great impact on almost all aspects of education. It provides many opportunities for language learning. It accelerates, enriches and improves basic language skills. Students can learn faster and easier at anytime, and anywhere. It also facilitates an active role of learners. However, the integration of ICT into language teaching depends on many factors which affect the success or the failure of its use. The majority of the studies in this area focused on teacher training, teachers' attitudes towards the ICT, and teachers' beliefs about the ICT in language learning (Chen, 2008; Egbert, Paulus & Nakamichi, 2002; Hubbard, 2008; Park & Son, 2009; Russell & Bradley, 1997). Teachers' age, teaching experience, and gender are some of the factors that affect ICT integration into language teaching and learning. These factors have been examined by some studies (Egbert, Paulus & Nakamichi, 2002; Teo, 2008; Todman, 2000; Yaghi, 2001). These studies have found different results. For example, two contrasted results are reported in the previous studies about the impact of teachers' gender on ICT integration. The first one found that teachers' gender affects the integration of ICT in language teaching and learning, but the second one found that teacher gender had no effect.

Therefore, the present study aims at investigating the effect of teachers' age, teaching experience, and gender on the integration of ICT into language teaching in EFL situations. The context of the study is different. Therefore, the results are supposed to be unique. In this context, female campuses are separated from male campuses. Female teachers teach only female students.

2. Literature Review

Integration of ICT in teaching does not simply mean the installment of ICT labs equipped with many computers. Integration of ICT into a language curriculum should fulfill many conditions, including the introduction of the technology and then maintaining it to be user-friendly. Ruthven-Stuart (2003) points out that ICT integration has three stages; acquisition, introduction and maintenance. The acquisition stage means the purchase of hardware and the software. Introduction stage is composed of three elements: deciding where and how to locate the hardware and software; a comprehensive description of the role that the technology will play in language teaching; and the process of acquainting the stakeholders with the technology so that they can use it efficiently



and effectively. Two aspects are considered in maintenance (i.e. maintained and operational). The installment of computer labs should not be considered an end in itself. Many factors should be considered to make ICT a successful and integrated part of language learning. For example, the participants of British Educational Communications and Technology Agency (Becta) felt that the most frequent individual factors which enable ICT use were: access to own personal laptop; availability of high quality resources; full access to software and hardware at all times; high level of technical support; access to an interactive whiteboard; and availability of good quality training. Therefore, a number of factors need to be considered to help ICT integration be successful. These factors can be examined in the light of three major categories as discussed below.

2.1 Factors for Successful Integration of ICT

2.1.1 ICT Factors

There are a number of issues regarding ICT to be considered when it is installed. For instance, ICT should involve appropriate hardware and software and be accessible at any time to both teachers and learners. In addition, ICT labs should be equipped with computers and other facilities that are suitable for teaching and learning purposes. There is no need to install highly technical labs with complex systems that only create difficulties for teachers and students. Another factor to be considered is the location of the computer lab. Jones (2001) points out that for the sake of effective learning, some locations are more appropriate than others. A CALL activity, for instance, that involves a small group or whole class and requires a teacher to be constantly at hand as a guide and adviser is more suitable to a laboratory than to a self-access centre. For effective integration, Chambers and Bax (2006) suggest that CALL facilities should not be separated from normal teaching space. The classroom should be organized in a way that allows for an easy move from CALL activity to non-CALL activity. McCarthy (1999) points out that the successful integration of any software presupposes an institutional infrastructure that provides sufficient appropriate hardware and IT link facilities in accessible locations and available at times when students and teachers need or want to use them. So it is necessary to consider the appropriateness of hardware and software, ease of the accessibility, and the location of the computers to make ICT integration successful. However, these factors can not alone facilitate the integration of ICT in language learning, some pedagogical factors are also necessary to be maintained.

2.1.2 Pedagogical Factors

Computers should serve language teaching and learning which means that teachers should know how to use computers to foster language teaching and learning. The success of ICT integration into the curriculum will vary from one place to another and from one class to another depending on the ways it is applied. It is important to train teachers with methods to use technology for language instruction. Cox, Preston, and Cox (1999) point out that if teachers are to be convinced of the value of using ICT in their teaching, their training should focus on pedagogical issues. Teachers should be equipped with skills for evaluating ICT materials, so they can adapt or develop suitable material for their own contexts. Also, it is very important for teachers to have a clear idea about when, what and where to use ICT materials. Chen (2008) states that teachers should be aware of proper technological tools for a particular task and the strategies for using the tools. Teachers should strike a balance between teacher time and computer time, teacher role and computer role. They ought to determine how they want software programs to support their teaching, particularly in cases where the language course necessitates the students spending a specific number of hours in the multimedia language laboratory.

The content, methodology and ICT suitability for the intended students are other issues to be considered. McCarthy (1994) points out that there should be a balance between the methodology, the linguistic content, and pedagogy. Moreover, quality issues such as accuracy, the availability of other supplementary materials in the form of printed workbooks and instructor manuals are also important. In addition to the pedagogical factors, individual factors related to the teachers and the learners are essential.

2.1.3 Individual Factor

Technology without teachers cannot create a good environment for language teaching and learning. Teacher and technology have important roles to play in education. Together, good teachers and good technology are essential to provide educational improvement. A number of studies have examined the impact of the teacher on ICT integration. (Becta, 2004; Chen, 2008; Egbert, Paulus & Nakamichi, 2002; Hubbard, 2008; Mumtaz, 2000; Park & Son, 2009; Russell & Bradley, 1997). These studies concluded that teachers have a crucial impact on the integration of ICT into language teaching and learning. Many factors related to teachers affect the integration of ICT. The teachers' age (Teo, 2008; Yaghi, 2001), experience (Egbert, Paulus & Nakamichi 2002; Russel and Bradley 1997), and gender (Russel & Bradley, 1997; Todman 2000) are some of these factors. These studies have found that human factors are essential in ICT integration. For example, Becta (2004) finds that a significant



determinant of teachers' level of engagement in ICT is their level of confidence in using technology. Chen (2008) suggests that continuous professional development would facilitate efficient and successful implementation of Internet use in language instruction. Mumtaz (2000) reviews a number of studies and concludes that successful integration of ICT needs to address three interlocking frameworks for change: the teacher, the school, and policy makers. Egbert, Paulus and Nakamichi (2002) find that teachers who use CALL activities are often those teachers who had experience with CALL. Park and Son (2009) point out that the teachers affirm that the quality of education depends exclusively on the quality of teachers, not the use of technologies. They also think that their positive attitude and continuous attempt to introduce new technologies and teaching materials to the class will improve language instruction. Findings from these studies suggest that the roles of teachers are critical in structuring the learning process, organizing activities, and evaluating materials equipped with CALL.

2.2 Rationale and Research Ouestions

The focus of previous studies was on teachers' ICT knowledge, teachers' beliefs, methods of using ICT in language teaching, and the nature of technology itself (the hardware and the software). Very few studies have examined the relationship between ICT integration within EFL teaching and learning contexts and factors related to the characteristics of teachers, such as teachers' age, experience, and gender. In addition, most of these studies were conducted in countries where technology was in its high position. The situation may be different if studies are conducted in developing countries or where technology use is still in its primitive stages. The teachers in these situations face different difficulties that may impede the use of ICT in teaching and learning a language. Their fresh use of ICT may affect the ways technology is integrated in language teaching. Therefore, the present study explores teacher-related factors that may affect the integration of ICT in teaching English as a foreign language. The study aims at addressing the following questions:

- 1. Do young teachers and old teachers differ in their uses of ICT in their instruction?
- 2. Do novice teachers and expert teachers differ in their uses of ICT in their instruction?
- 3. Do male teachers and female teachers differ in their uses of ICT in their instruction?

3. Method

3.1 Research Design

The methodology applied in this study is a mixed-method, including both quantitative and qualitative methods. The quantitative part of this study is a survey, whereas the qualitative part is an interview.

3.2 Participants

A total of 46 out of 70 EFL instructors at Najran University, Saudi Arabia, participated in this study, constituting a response rate of 65.7%. The 46 teachers were selected out of a total of 70 teachers teaching English at Najran University in the academic year 2011-2012. Their demographic information was elicited through the first part of the survey administered to them. Their demographic background is shown in Table 1.

Table 1. Teachers' Background Information

Category	Groups	Number of	Percentage
		participants	
Age	20-40 years	27	58.69%
	41-60	19	41.31%
Gender	Male	32	69.56%
	Female	14	30.44%
Teaching experience	1-10 years	28	60.86%
	11-25 years	18	39.14%

Table 1 shows that 27 teachers were under the age of forty years, and 19 teachers were above the age of 40 years. A total of 32 male teachers and 14 female teachers participated in the study. According to their teaching experience, 28 teachers have been teaching English for less than 10 years, whereas 18 teachers have teaching English for more than 10 years. The division of teachers into groups according to their ages and years of teaching was performed to check if the age and teaching experience have any kind of impact on ICT integration. The division was not based on specific criteria. However, it is meant to infer if there were any significant differences between the groups.



3.3 Data Collection Tools

A survey (Appendix A) was developed to examine the factors that affect the respondents' use of ICT in their teaching. It included two sections which sought their demographic background, and their ICT knowledge and use in teaching. The items of the survey were based on (Chen, 2008) with some modifications to match the research questions. A structured interview was developed for the qualitative part of the study. Specific questions based on the research questions were prepared.

3.4 Procedure

The survey was administered to all the EFL instructors at English Department at Najran University, Saudi Arabia (n=70). A total of 50 survey papers were collected. Forty-six were included in the analysis. The other four were rejected because they were incomplete. A follow-up interview was held with ten EFL teachers from those who responded to the survey. The selection of these teachers was based on the following criteria: (a) those who showed their willingness to participate in the interview, as they replied to the last question of the survey; and (b) those whose answers to the survey required more clarifications.

3.5 Data Analysis Procedures

The survey responses were coded and statistically analyzed to determine the mean, frequency and percentage of each item. The responses were examined under three categories (i.e. age, teaching experience and gender). The totals in each category were computed and compared using SPSS package. T-test was applied to find out if there was any significant difference between the means of the groups. The result of each category is reported in the following section.

4 Results and discussion

4.1 Teachers' Age and ICT Use

Table 2. Teachers' age and ICT use

Question	Group 1 (20-40) (n= 27)			Mean	Gro	up 2 (41-60)	(n=1)	9)	Mean	
		Yes			_	Yes		No		_
	N	Percent	N	Percent		N	Percent	N	Percent	_
Do you have your own personal computer?	25	92.6 %	2	7.4%	1.074	18	94%	1	5.3%	1.05
Do you access the Internet in your office?	12	44.4%	15	55.6%	1.55	12	63.2%	7	36.6%	1.36
Do you access the internet at home?	27	100%	0	0%	1.00	16	84.2%	3	15.8%	1.15
Have you ever taught English using a computer?	19	70.4%	8	29.6%	1.29	17	89.5%	2	10.5%	1.10
Have you ever taken a training course in ICT?	10	37%	17	63%	1.62	6	31.6%	13	68.4%	1.68
Do you usually read about ICT?	15	55.6%	12	44.4%	1.44	8	42.1%	11	57.9%	1.57

Table 2 shows that most of the teachers in both groups had their own personal computers, and they could access the internet at home. However, the teachers in the second group (41-60) reported that they could access the internet in their offices more than the teachers in the first group. Regarding using ICT in their teaching, more teachers in the second group (89.5%) had used ICT in their teaching, whereas 70.4% of the teachers in the first group had used ICT in their teaching. However, the total number of the teachers who had used ICT in their instruction in both groups is similar (i.e. 19 and 17) which means that there is no significant difference between the two groups regarding the uses of ICT in English language teaching. Many of the respondents in both groups did not attend any training course in ICT.

Regarding reading about ICT and its uses in language teaching, 55.6% of the respondents in the first group had read materials about ICT and its application in language teaching and learning, whereas 42.1% of the teachers in the second group had not read materials about ICT and its application in language teaching and learning. T-test results (Appendix B) indicate that there is no significant difference between the two groups regarding the



integration of ICT in language learning. All the t-values shown in Appendix B are more than .05 which means that there is no significant difference between the young and old teachers.

Similarly, the results obtained from the interview indicate that most of the teachers felt that the age of the teacher had nothing to do with the integration of ICT in language teaching. Only one teacher stated that the age had an impact on the integration of ICT into language teaching. She stated that "young teachers are more enthusiastic and more energetic than senior ones". These findings contrast with those from some previous studies relating to the impact of teachers' age on ICT integration (e.g., Lee, 1997; Teo, 2008; Yaghi, 2001). These studies have found older teachers to be less confident with using computers. Lee (1997) as cited in Becta (2004) pointed out that many teachers of 'advanced age' will not have any computer education when in college, and as a result are in need of computer skills training to allow them to make use of computers in their work. Teo (2008) found that Singaporean pre-service teachers' attitudes for computer use were influenced by their age. Yaghi (2001) found that older teachers were less confident with using computers. In sum, the teacher's age had no effect on the implementation of ICT in language learning. Though, it may have indirect effect regarding the teaching experience. In other words, young teachers may have less teaching experience than senior teachers. The impact of teaching experience will be analyzed below.

4.2 Teachers' Experience and ICT Use

Table 3. Teachers' experience and ICT use

Question	Group 1 (1-10)		(n=	28)	Mean	Gro	up 2 (11-20) (n=	= 18)	Mean	
	Yes		No			Yes	Yes				
	N	Percent	N	Percent		N	Percent	N	Percent	_	
Do you have your own personal computer?	25	89.3%	3	10.7%	1.10	18	100%	0	0%	1.00	
Do you access the internet in your office?	12	42.9%	16	57.1%	1.57	12	66.7%	6	33.3%	1.33	
Do you access the internet at home?	7	25%	21	75%	1.00	1	5.6%	17	94.4%	1.16	
Have you ever taught English using a computer?	19	67.9%	9	32.1%	1.32	17	94.4%	1	5.6%	1.05	
Have you ever taken a training course in ICT?	7	25%	21	75%	1.75	9	50%	9	50%	1.50	
Do you usually read about ICT?	15	53.6%	13	46.4%	1.46	8	44.4%	10	44.6%	1.55	

Table 3 shows that the teachers in both groups had their own personal computers and accessed the internet much when they are in their offices. Also, a good number of them (67.9% in the first group and 94.4% in the second group) had taught English using ICT. Regarding training courses, two-thirds (75%) of the respondents in the first group did not attend any training course in ICT, while half of the respondents in the second group had attended training courses in ICT. T-test results (Appendix C) indicate that there is no significant difference between the two groups regarding the integration of ICT in language learning. Most of the t-values shown in Appendix C are more than .05 which means that there is no significant difference between the novice and experienced teachers. However, the teachers in the interview expressed two contrasting views about the impact of teachers' experience in integrating ICT into language teaching. Four of them felt that teaching experience had an influence in using ICT in teaching. One teacher stated that "proper integration of any teaching aids is enhanced by experience." On the other hand, six of them felt that teachers' experience did not matter. Instead, they distinguished two types of experience that affect ICT integration. The first is a general teaching experience with or without using ICT. The second is a specific teaching experience in which ICT was used during teaching. Regarding this distinction, the second one had an effect on integrating ICT, while the first one had nothing to do with the integration of ICT in language teaching. The results of this study indicate that there is no significant difference between experienced (i.e., teaching for more than ten years) and less experienced teachers (i.e., teaching for less than ten years).

The results of this study are in contradiction with the results of some of the previous studies which found that more experienced teachers had used ICT in their teaching. For example, Egbert, Paulus and Nakamichi (2002) found that teachers who used CALL activities were often those teachers who had experience with CALL. Russel



and Bradley (1997) pointed out that the teachers' believed that more experience with computer was needed to feel competent in their use with class. Also, Teo (2008) found that the years of computer usage is positively correlated with level of computer confidence. Meskil, Mossop, DiAngelo and Pasquale (2002) compared the use of technology between novice and expert teachers. They found that those novice teachers were far less comfortable in their implementations than the more experienced teachers who had no formal training with computers but a great deal of classroom experience.

4.3 Teachers' Gender and ICT Use

Table 4. Teachers' gender and ICT use

Question	Group 1 (male)		(n=32)		Mean	Group 2 (female) (n= 14)				mean
	Yes		No		-	Yes		No		
	N	Percent	N	Percent	="	N	Percent	N	Percent	
Do you have your own personal computer?	31	96.9	1	3.1	1.03	12	85.7	2	14.3	1.14
Do you access the internet in your office?	24	75	8	25	1.25	0	0	14	100	2.00
Do you access the internet at home?	30	93.8	2	6.3	1.06	13	92.9	1	7.1	1.07
Have you ever taught English using a computer?	29	90.6	3	9.4	1.09	7	50	7	50	1.50
Have you ever taken a training course in ICT?	15	46.9	17	53.1	1.53	1	7.1	13	92.9	1.92
Do you usually read about ICT?	20	62.5	12	37.5	1.37	3	21.4	11	78.6	1.78

The results shown in Table 4 revealed some differences between male and female teachers in using ICT in language teaching. Two-thirds (75%) of male teachers had accessed to the internet in their offices, whereas none of the female teachers had accessed the internet in their offices. Internet access at home is almost the same for both groups. The results show that 90.6% of male teachers had taught using computers in their teaching, whereas 50% of female teachers had taught using computers in their teaching. Also, 46.9% of the male teachers had attended ICT training courses, while only 7% of the female teachers had attended ICT training courses. However, the results obtained from the interview revealed that the gender of the teachers had no effect on integrating ICT in language teaching. T-test results (Appendix D) indicate that there is a significant difference between the two groups regarding the integration of ICT in language learning. Most of the t-values are less than .05 which means that there is no significant difference between the male and female teachers.

The results of this study are in contrast with some of the previous studies (e.g., Russel & Bradley, 1997; Todman 2000). Russel and Bradley (1997) reported a correlation between gender and levels of computer anxiety, in which female teachers reported a greater degree of anxiety than male teachers. Todman (2000) concluded that research on computer self efficacy in general also revealed that males on average tend to acquire computer self efficacy faster than females. Significant differences between males and females were observed for technical ICT capabilities, and situational and longitudinal sustainability. In this case, male teachers' scores were higher.

The gender factor is an essential factor that affects the use of ICT in language teaching. It seems that the situation examined in this study did not help female teachers to get the maximum benefits of ICT in language teaching and learning. The situation examined by this study is unique. Female teachers and students have their own campuses. It is not allowed for female to attend male classes and vice versa. The system affects the ways that female teachers use ICT in their teaching. The continuous breakdowns hinder them use ICT smoothly. If any technical fault, they have to wait for male ICT expert to fix the problem in the evening when there is nobody inside the campus.

5. Conclusions

This study investigated the impact of teachers' age, experience and gender on ICT reported to use into language teaching and learning. The findings of this study concluded that there are no significant differences in ICT use regarding teachers' age and teaching experience. There is a significant difference between male and female teachers in the use of ICT in language teaching and learning. The results showed a lack of ICT training for most of the teachers who participated in the study. Therefore, ICT training courses should be provided to improve ICT



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integration into EFL language teaching and learning contexts.

These results present an initial step toward the successful integration of ICT into language teaching and learning at Saudi universities. The authors suggest that female teachers need to receive more support and be trained to use ICT in their instruction. In addition, seminars and workshops by female ICT experts should be provided for in-service female teachers. It is plausible that a number of limitations could have influenced the results obtained. The current sample of teachers is not representative of in-service teachers at Saudi universities. It would be better if a large number of in-service teachers from different parts of Saud Arabia participated in the study.

Several areas of future research can be conducted to better understand the impact of the teachers' age, gender and experience factors on ICT integration. This study needs to be replicated with a large number of teachers and within different contexts. In-depth longitudinal studies are needed to track the issues of successful ICT integration and examine any successful experiment.

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Appendix A

CALL Survey

Dear colleagues,

This is a survey about the integration of CALL (Computer-Assisted Language Learning) into EFL curriculum in Saudi Universities. You are requested to answer the questions below. The answers will be used for research purposes. Your answers will be kept absolutely confidential. Thank you very much for your time and cooperation.

Sincerely,

Section I: Personal Info	mation		
1- Name (optional):	e-mail (option	al):	
Age:	Gender:	Nationality:	
2- Your highest education	al degree: 🗆 Undergraduate	□ Master	□ Doctorate
3- Your current academic	position: Instructor Lec	turer Assistant Pro	f. Associate Prof.
□ Professor □ other	(please specify)		
4- What is your area of sp	ecialization? (E.g. Literature, l	Linguistics,)	
5- How many years have	you been teaching English?		
6- You are currently teach	ing the following:		
□ English Major Courses	(please mention the courses yo	ou teach)	
□ English Supplementary	Courses (please mention the c	ourses you teach)	
7- What is the average nu	mber of students in your class?		
Section II: IT Knowledg	e and IT Use in Teaching		
8- Do you have your own	personal computer? □ Yes	□ No	
If yes, what type of comp	uter do you have? 🗆 Desktop	D □ Laptop □ I	Both
9- Do you access the Inter	net in your office?	□ No	
10- Do you access the inte	ernet at home? Yes	No	
11- Do you have a high-sp	peed Internet connection in you	ır classroom? □ Yes	□ No
12- Are there any compute	er facilities in your department	for your students?	☐ Yes ☐ No
13- How many computers	are located in your classroom	?	
14- Have you ever taught	English using a computer?	□ Yes □ No	
15- Have you ever taken a	training course in CALL?	□ Yes □ No	
16- Do you usually read a	bout CALL, attend seminars, e	etc about CALL?	Yes □ No
17- Do you have a homep	age on your university website	? □ Yes □ No	
Would you like to particing	ate in the interview that will b	e conducted by the rese	earchers very soon.



Appendix B. Output of the analysis of age variable

Independent Samples Test

independent Samples Test											
		Levene's quality of	Test for Variances			t-test for	Equality of	Means			
							Mean	Std. Error	95% Cor Interva Differ	l of the	
		F	Sig.	t	df	ig. (2-tailed			Lower	Upper	
Do you have your ov personal computer?	assumed	.327	.570	.284	44	.778	.02144	.07553	13078	.17366	
	Equal variance not assumed			.292	42.146	.772	.02144	.07354	12695	.16984	
Do you access the Internet in your office		1.023	.317	1.245	44	.220	.18713	.15032	11581	.49008	
	Equal variance not assumed			1.250	39.429	.219	.18713	.14975	11565	.48992	
Do you access the internet at home?	Equal variance assumed	29.341	.000	-2.201	44	.033	15789	.07175	30250	01329	
	Equal variance			-1.837	18.000	.083	15789	.08595	33846	.02267	
Do you have a high-speed Internet		4.752	.035	-1.020	44	.313	11696	.11470	34813	.11421	
connection in your classroom?	Equal variance not assumed			-1.073	43.822	.289	11696	.10900	33665	.10273	
Are there any computations in your	assumed	.283	.597	1.501	44	.140	.22417	.14931	07675	.52509	
department for your students?	Equal variance not assumed			1.504	39.159	.141	.22417	.14904	07725	.52559	
Have you ever taugh English using a	Equal variance assumed	12.515	.001	1.554	44	.127	.19103	.12296	05678	.43885	
computer?	Equal variance not assumed			1.659	43.963	.104	.19103	.11512	04097	.42304	
Have you ever taken training course in CA		.587	.448	375	44	.710	05458	.14559	34801	.23884	
	Equal variance not assumed			377	39.631	.708	05458	.14482	34736	.23820	
Do you usually read about CALL?	Equal variance assumed	.098	.755	886	44	.380	13450	.15174	44031	.17131	
	Equal variance not assumed			886	38.865	.381	13450	.15179	44156	.17255	
Do you have a homepage on your	Equal variance assumed	1.168	.286	.689	44	.494	.10331	.14995	19889	.40552	
university website?	Equal variance not assumed			.684	37.867	.498	.10331	.15106	20253	.40916	
Does the course con any CALL materials?		2.325	.134	.863	44	.393	.12476	.14461	16668	.41620	
	Equal variance not assumed			.850	36.716	.401	.12476	.14684	17285	.42236	
Does the course ask students to do online	•	.172	.680	.209	44	.836	.02534	.12140	21933	.27001	
exercises?	Equal variance not assumed			.207	37.486	.837	.02534	.12263	22301	.27370	
Does the course encourage students		1.100	.286	1.669	44	.102	.24561	.14719	05104	.54227	
access the materials online?	Equal variance not assumed			1.653	37.538	.107	.24561	.14863	05538	.54661	



Appendix C. Output of the analysis of experience variable

Independent Samples Test

independent Samples Test											
	Levene's quality of	Test for Variance			t-test for	Equality o	f Means				
						Mean	Std. Error	Interva	nfidence Il of the rence		
	F	Sig.	t	df	ig. (2-tailed			Lower	Upper		
Do you have your c Equal varian personal computer assumed	10.672	.002	1.437	44	.158	.10714	.07454	04308	.25737		
Equal varian not assumed	l		1.800	27.000	.083	.10714	.05952	01499	.22928		
Do you access the Equal varian Internet in your offic assumed	1.697	.199	1.587	44	.120	.23810	.15007	06435	.54054		
Equal varian not assumed			1.600	37.430	.118	.23810	.14880	06329	.53948		
Do you access the Equal varian internet at home? assumed	33.478	.000	-2.314	44	.025	16667	.07201	31180	02154		
Equal varian not assumed			-1.844	17.000	.083	16667	.09039	35737	.02403		
Do you have a Equal varian high-speed Interne assumed	17.079	.000	-1.715	44	.093	19444	.11335	42290	.03401		
connection in your Equal varian not assumed			-1.941	42.881	.059	19444	.10015	39644	.00755		
Are there any complex Equal varian facilities in your assumed	.288	.594	1.201	44	.236	.18254	.15198	12375	.48883		
department for you Equal varian students? not assumed			1.202	36.533	.237	.18254	.15182	12521	.49029		
Have you ever tauç Equal varian English using a assumed	34.690	.000	2.198	44	.033	.26587	.12094	.02213	.50962		
computer? Equal varian not assumed			2.516	41.866	.016	.26587	.10566	.05262	.47913		
Have you ever take Equal varian training course in C assumed	5.739	.021	1.758	44	.086	.25000	.14221	03661	.53661		
Equal varian not assumed			1.699	32.310	.099	.25000	.14714	04960	.54960		
Do you usually read Equal varian about CALL? assumed	.070	.793	593	44	.556	09127	.15384	40130	.21876		
Equal varian not assumed			592	36.227	.557	09127	.15407	40366	.22112		
Do you have a Equal varian homepage on your assumed	1.918	.173	1.583	44	.121	.23413	.14794	06403	.53229		
university website? Equal varian not assumed			1.557	34.458	.129	.23413	.15034	07125	.53951		
Does the course cc Equal varian any CALL materials assumed	.744	.393	.460	44	.648	.06746	.14677	22834	.36326		
Equal varian not assumed			.454	34.971	.652	.06746	.14852	23406	.36898		
Does the course as Equal varian students to do onlir assumed	.496	.485	.357	44	.723	.04365	.12236	20296	.29026		
exercises? Equal varian not assumed			.349	33.923	.729	.04365	.12490	21020	.29750		
Does the course Equal varian encourage student: assumed	.425	.518	2.684	44	.010	.38095	.14195	.09487	.66704		
access the materia Equal varian online? not assumed			2.652	34.980	.012	.38095	.14363	.08936	.67255		



Appendix D. Output of the analysis of gender variable

Independent Samples Test

		L.								
			Test for Variance			t-test for	Equality c	f Means		
									Interva	
		F	Sig.	t	df	ig. (2-tailed	Mean Difference	Std. Error Difference		ence Upper
Do you have your personal computer			.006	-1.410	44	.165	11161	.07913		.04786
	Equal varian not assumed			-1.095	15.764	.290	11161	.10196	32801	.10480
Do you access the Internet in your off	assumed	40.174	.000	-6.338	44	.000	75000	.11833	98848	51152
	Equal varian not assumed			-9.644	31.000	.000	75000	.07777	90862	59138
Do you access the internet at home?	assumed	.048	.827	110	44	.913	00893	.08089	17194	.15408
	Equal varian			107	23.087	.916	00893	.08362	18187	.16401
Do you have a high-speed Interne		7.769	.008	-1.206	44	.234	14732	.12218	39357	.09892
connection in your classroom?	not assumed			-1.430	37.776	.161	14732	.10303	35593	.06129
Are there any com facilities in your department for you	assumed	22.928	.000	-4.565	44	.000	61607	.13495	88804	34411
students?	not assumed			-5.616	40.763	.000	61607	.10969	83764	39450
Have you ever tau English using a	assumed	26.013	.000	-3.372	44	.002	40625	.12047	64903	16347
computer?	not assumed			-2.741	16.826	.014	40625	.14823	71923	09327
Have you ever take training course in (assumed	80.204	.000	-2.757	44	.008	39732	.14409	68772	10692
	Equal varian			-3.467	42.246	.001	39732	.11461	62857	16607
Do you usually rea about CALL?	assumed	6.030	.018	-2.708	44	.010	41071	.15167	71638	10505
	Equal varian			-2.868	28.531	.008	41071	.14322	70384	11759
Do you have a homepage on your	Equal varian assumed		.000	-4.424	44	.000	59375	.13421	86423	32327
university website	not assumed			-6.731	31.000	.000	59375	.08821	77366	41384
Does the course of any CALL material	assumed	26.266	.000	-1.970	44	.055	29464	.14959	59612	.00684
	Equal varian			-2.236	34.015	.032	29464	.13175	56238	02690
Does the course a students to do onli	assumed	11.533	.001	-1.404	44	.167	17857	.12716	43484	.07769
exercises?	Equal varian			-1.691	39.068	.099	17857	.10560	39215	.03500
Does the course encourage student		13.924	.001	-2.042	44	.047	31696	.15523	62981	00412
access the materia online?	Equal varian not assumed			-2.188	29.387	.037	31696	.14486	61307	02086

