International Journal of Novel Research in Education and Learning Vol. 5, Issue 5, pp: (33-48), Month: September - October 2018, Available at: <u>www.noveltyjournals.com</u>

A SMALL-SCALE RESEARCH ABOUT SKYPE AS A SYNCHRONOUS SOCIAL MEDIUM AND ITS USE AND WRITING PRACTICES AS AN EDUCATIONAL TOOL

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Abstract: In this small-scale survey quantitative and qualitative research about skype, I am trying to collect data with the help of a questionnaire with 20 structured questions and record the self reports of the respondents, who are students of the University of Macedonia in Thessaloniki, University in Ioannina and others, in anonymity, for the use of skype and its writing practices as an educational tool. The exploration and edit of the responses of the representative sample using data analysis methods with descriptive statistics and pair-wise comparisons lead to some significant findings about the use of skype as a synchronous social medium for educational purposes. A web survey via e-mail used which has the advantage of having each respondent's answers automatically entered into a data file and saving on data entry time. Spreadsheet (excel), database, graphics and statistical analysis software were also available for this step. The demographic characteristics of the representative sample of the entire group for this type of comparison include gender, educational level (status), age, etc.

The final discussion about these findings reveals the protagonist role of the new educational technology in the age of digital literacy.

Keywords: data analysis methods, descriptive statistics, digital literacy, questionnaire, representative sample, skype, small-scale survey, writing practices.

I. INTRODUCTION

Skype is a Voice-Over-Internet Protocol (VOIP) service and software application that allows users **to communicate with others by voice, video, and instant messaging over the Internet.** VOIP is **synchronous computer mediated communication** (CMC) that appeared in about 2004. There is not yet much research on VOIP in teaching and learning, especially not in primary or secondary education. Phone calls may be placed to recipients on the traditional telephone networks. Calls to other users within the Skype service are free of charge, while calls to landline telephones and mobile phones are charged via a debit-based user account system. Skype has also become popular for its additional features, including **file transfer, and videoconferencing**. (Wikipedia: Skype)

Skype in particular provides teachers with a suitable platform to enhance students' language abilities and it is ideal for role-playing based learning activities. Role-playing via a structured synchronous CMC discussion has been proved to be effective English as a foreign language (EFL) teaching tool. (Yang & Chang, 2013).

Computer-mediated communication (CMC) is often promoted as an exciting new educational medium that will be attractive to students. As it is commonly assumed that contemporary youth are as comfortable in virtual worlds as in face-to-face contexts, one might expect that a social presence naturally emerges within online educational environments that automatically generates student involvement and increasingly motivates them to actively participate in the ongoing online conversation. (Dawn Grimes-MacLellan, 2015, pp.227).

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Human communication consists of more than sounds, graphemes, words, and sentences. It also expresses emotions. But playing with punctuation and typography are not the only tools available for expressing emotion when writing online. Beginning in 1982, a new form of expression markers, known as emoticons, began to emerge. These markers were explicitly created with the goal of clarifying the emotion that an online writer was intending to convey in his or her message. (N. Baron, 2009).

II. RECEARCH METHODOLOGY

Research objective: the use of skype and its writing practices as an educational tool

The researcher used data analysis methods with descriptive statistics and pair-wise comparisons. The target population (group) was 14 individuals that used skype and selected incidentally from a data base of 64 responses to a questionnaire with 20 questions. This standard set of structured questionnaire was used to gather pertinent information concerning the variables in the survey. The questionnaire were individually distributed to the respondents who were students of the University of Macedonia in Thessaloniki, University in Ioannina and others, within e-mails to be filled and returned. An introductory letter was attached with the questionnaire which guided the respondents on how to appropriately answer the questions. (Pauwels, A. Tsokalidou, R. Wong, L., 1995),

Skype – Questionnaire

Questions

1. Are you male or female?

Male 🛛

Female □

2. What is your age?

18 to 24 □

25 to 34 □

- 35 to 44 □
- 45 to 54 □

55 to 64 □

3. How long have been using Skype?

1-12 months

More than 1 year \Box

More than 2 years \Box

3-5 years

4. How easy was for you the use of Skype?

No problems

Some difficulties

Major problems

5. Educational level

High School □

Secondary

University 🗆

Post-graduate



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6. How familiar are you with new technology skills and computers?

0. How failing are	you with new technology skins and computers:
(digital literacy)	
No knowledge	
Basic	
Intermediate	
Very good knowledge	e 🗆
7. How often do you	use skype?
Once a month \Box	
Once a week \Box	
Every day 🛛	
8. Do you use skype	for
Personal communicat	ion 🗆
Bussiness communica	ation
Other purpose	
9. What language do) you use for skype?
Greek 🗆	
English 🗆	
Greeklish 🗆	
Other 🗆	
10. Which of skype	features do you usually use?
Calling	
Video	
Messaging	
Sharing	
Other Skype features	
11. Which equipmen	nt do you usually use during a Skype session?
Web-camera	
Head-phones	
Microphone 🛛	
Others 🗆	
12. How important of	lo you think is Skype for your communication?
Great importance	
Medium importance	
No importance	
13. Have you ever pa	aid to Skype for additional features?
Yes 🗆	

NT

No 🗆

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14. On what device do you use Skype?

PC Lap-top

Tablet 🗆

Smart-phone

15. Do you also use emoticons or other symbols at your text

messages?

Yes 🗆

No 🗆

16. Would you start a language or any other educational course via

skype?

Yes 🗆

No 🗆

Maybe 🗆

17. What do you consider as the main weaknesses of Skype learning?

(You may choose more than one answer)

Certain types of exercises may require additional expensive software. Possible technical problems with the Internet connection, microphone, webcam, computer, etc. Some people find face-to-face lessons more convenient and nicer									
Skype is not the best learning tool for children									
Lessons without a webcam, it is impossible to see the actions of the person you talk t Additional time spent at the screen may have a negative impact on his/her health.	to 🗆								
Something else									
18. What do you consider as the main strengths of Skype learning?									
(You may choose more than one answer)									
Time efficiency Many kind of educational materials available (texts, tables, audio, video, presentations, etc)									
Lessons with a teacher from any part of the world									
It is not necessary to spend money on public transport and/or petrol. Extremely flexible schedule Ability to record and distribute the lessons									
Something else									
19. Do you use Skype for Teacher-Student Session (TSS) or web-conference?									
Yes 🗆									

No 🗆

20. Would you recommend Skype to your friends and family?

Definitely no □

Probably no

Probably yes

Definitely yes □

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A web survey via e-mail used which has the advantage of having each respondent's answers automatically entered into a data file and saving on data entry time.

The data collected was quantitative and qualitative and was measured using percentages, frequencies and mean. Spreadsheet (excel), database, graphics and statistical analysis software were also available to present findings.

The demographic characteristics of the representative sample of the entire group for this type of comparison include gender, educational level (status), age, etc.

TABLE: A part of the spreadsheet (excel), as a database which used to select the answers of the respondents

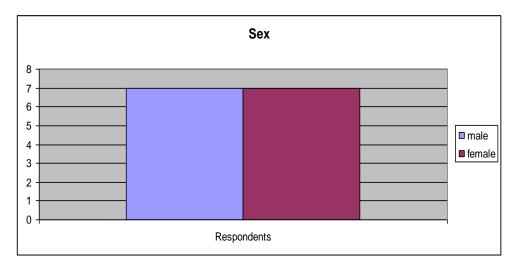
stamo 🔤 Wale or Female	No.	The local sectors for the	Skype How easy was Skype for				The second s	·	that app <mark>2</mark> Which equipment do you usually use during a Skype session (che	
samp <u>m</u> kale of Penale 0/17/2017 19:33:45 M	35 to 54	3 years or more	No problems	University	Very good knowledge	er jogen ne <u>m p</u> ovroten to you tee sopery. Raelv	Pesonal communication. Greek	Calino. Video	warap <u>y w</u> when accupitance you usually use nump a stype session pre- Web-canera. Microhore	<u>k en met epin from in ponen die yw innikis skype nor yw rommu.</u> Vedun inconarce
0117207719333461M 011720772048481M									and the second s	
	35 to 54	3 years or more	No problems	University	Very good knowledge	Every day	Personal communication, English	Caling, Video, Messaging	Web-camera, Head-phones	Geat inpotance
0/22/2017 19:06:40 F 0/17/2017 21:39:26 M	35 to 54	3 years or more	No problems	Uniesty	Basic	Sometimes a year or even rarely		Video	Web-camera	Medum importance
	18 to 34	1-2 years	Some dificulties	Uniersty	Intermediate	Sometimes a year or even rarely		Video	Web-camera, Head-phones, Microphone	Great importance
0/17/2017 22:03:05 M	35 to 54	1-12 months	Major problems	University	hemediate		Personal communication Greek	Messaging	Head-phones	No importance
0/17/2017 22:20:09 M	35 to 54	3 years or more	Some dificulties	University	htemediate	Sometimes a month	Personal communication Greek	Video	Web-camera	Medium importance
0/17/2017 22:29:19 M	35 to 54	1-2 years	No problems	University	Very good knowledge	Once a week	Personal communication Greek	Caling, Video	Web-camera, Microphone	Medium importance
0/17/2017 22:46:10 M	35 to 54	3 years or more	No problems	University	hemeőate	Sometimes a year or even rarely	Personal communication Greek	Video	Web-camera, Microphone	Great inpotance
0/17/2017 22:48:23 F	18 to 34	1-2 years	No problems	University	Very good knowledge	Sometimes a year or even rarely	Bussiness communication English	Video	Web-camera	No importance
10/18/2017 0:13:37 M	35 to 54	1-2 years	Some dificulties	University	Internediate	Sometimes a month	Personal communication, English	Caling, Nessaging	Web-camera, Head-phones, Microphone	Great importance
10/18/2017 8:43:55 M	35 to 54	3 years or more	No problems	University	Very good knowledge	Once a week	Personal communication Greek	Video, Messaging	Web-camera, Head-phones, Microphone	Great importance
10/18/2017 8:47:52 F	35 to 54	3 years or more	No problems	University	Basic	Sometimes a month	Pesonal communication Greek	Video	Web-canera	Vedum incotarce
10/18/2017 9:41:18 F	18 to 34	3 years or more	No problems	University	hemediate	Sometimes a year or even rarely	Personal communication Greek	Calling, Video, Messaging	Web-camera	No importance
10/18/2017 9:43:23 F	18 to 34	1-2 years	No problems	University	hiemetrizie	Every day	Personal communication Greek	Video, Messaping	Heafshmes	Gest impotance
0/18/2017 10:12:00 F	18 to 34	3 years or more	Some dificulties	University	Baic	Cros a week	Pesonal communication Greek	Video	Web-camera, Head-phones, Microphone	Nedum importance
0182017 10:12:07 M	18 to 34			Uniesty			Pesonal communication Greekish	Caling, Video, Messaging		Great incontance
		3 years or more	No problems		Very good knowledge	Every day			Web-camera, Head-phones, Microphone	the second se
0/18/2017 10:48:10 M	18 to 34	3 years or more	Some dificulties	Uniersty	Very good knowledge	Sometimes a month	Personal communication, Greek	Calling, Video, Messaging	Headphones	Nedum importance
0/18/2017 11:39:25 M	18 to 34	3 years or more	No problems	Uniersty	Very good knowledge	Once a week	Personal communication, Greek	Calling, Video, Messaging	Web-camera, Headiphones, Microphone	Medum importance
D'18/2017 11:45:17 M	35 to 54	3 years or more	No problems	Uniersty	Very good knowledge	Once a week	Personal communication, English	Calling, Video, Messaging	Web-camera, Head-phones, Microphone	Nedum importance
D'18/2017 12:02:56 M	18 to 34	3 years or more	Some dificulties	University	Baic	Once a week	Personal communication English	Caling, Video	Web-camera, Head-phones, Microphone	Geat inpotance
D'18/2017 12:22:46 M	18 to 34	3 years or more	Some dificulties	University	Very good knowledge	Sometimes a month	Personal communication, Greeklish	Video, Messaging	Web-camera, Head-phones, Microphone	Medium importance
0/18/2017 14:06:24 M	18 to 34	1-2 years	No problems	University	Baic	Sometimes a year or even rarely	Personal communication Greek	Video	Web-camera	Great importance
0/18/2017 15:02:31 F	18 to 34	3 years or more	No problems	University	hemeőate	Sometimes a year or even rarely	Personal communication English	Calling, Video, Messaging	Web-camera, Head-phones	No importance
0'18/2017 16:10:01 F	18 to 34	3 years or more	No problems	University	Very good knowledge	Sometimes a year or even rarely	Personal communication English	Video, Messaging	Web-camera, Head-phones, Microphone	No importance
0/18/2017 17:35:01 M	18 to 34	3 years or more	No problems	University	Very good knowledge	Every day	Personal communication English	Video	Web-camera, Head-phones, Microphone	Great importance
0/18/2017 17:40:31 F	18 to 34	3 years or more	Some dificulties	University	htemeőate	Sometimes a year or even rarely	*	Video	Web-camera, Microphone	Nedum importance
D'18/2017 17:40:38 M	18 to 34	3 years or more	Some dificulties	University	Very good knowledge	Once a week	Pesonal communication. Greek	Calino, Video, Messacino	Web-camera, Microphone	Vedum importance
0'18/2017 18:27:28 F	18 to 34	3 years or more	No problems	Uniosiy	hemediate	Sometimes a month	Other punces Greek	Video	Web-camera, Headohomes	Vedum importance
D'18/2017 10:21:23 F	18 to 34	3 years or more	No problems	Uniesty	Reic	Every day	Personal communication Greek	Video	Web-carrera	Geat inpotance
01920171040:47 F	18 to 34	3 years or more	No problems	University	hemeőate		Personal communication Greek	Calling, Video, Messaging	Web-camera, Head-phones, Microphone	Medium importance
0/19/2017 10:48:35 F	18 to 34	1-12 months	No problems	University	Very good knowledge	Sometimes a month	Personal communication English	Video	Web-camera	Great importance
0'19/2017 11:26:47 M	18 to 34	3 years or more	No problems	University	hemediate	Sometimes a year or even rarely		Caling	Head-phones	No importance
0/19/2017 11:48:35 M	18 to 34	3 years or more	No problems	University	hemediate	Every day	Personal communication, Greek	Caling	Head-phones	Great importance
0/19/2017 12:43:02 M	18 to 34	3 years or more	Some dificulties	University	hemediate	Sometimes a year or even rarely	Personal communication Greek	Caling, Messaging	Morphone	Medium impotance
0/19/2017 12:47:32 F	18 to 34	1-2 years	No problems	University	Very good knowledge	Sometimes a year or even rarely	Personal communication Greek	Caling, Video	Web-camera, Head-phones	Medium importance
0/19/2017 14:04:40 M	18 to 34	3 years or more	No problems	University	Very good knowledge	Sometimes a month	Personal communication, Greek	Calling, Video	Web-camera, Head-phones, Microphone	Great importance
0/19/2017 14:41:44 F	18 to 34	1-12 months	No problems	University	Baic	Sometimes a vear or even rarely	Pesonal communication Greek	Video. Messaging	Head-chones	Nedum incotarce
0'19/2017 18:59:41 M	18 to 34	3 years or more	No problems	University	Very good knowledge	Sometimes a month	Personal communication, Greek	Calling, Video, Messaging, Other Skype features	Web-camera, Head-phones, Microphone	Great importance
0/19/2017 21:34:33 F	351054	1-12 months	Some dificulties	University	hemediate		Personal communication, Greek	Calling, Video, Messaging	Web-camera, Headphones, Microphone	Medum importance
0'19/2017 23:39:46 F	18 to 34	1-12 months	No problems	University	Very good knowledge	Every day	Pesonal communication, Greek	Viden	Web-camera	Gest inpotance
0/20/2017 10:44:14 F	35 to 54	1-2 years	Some dificulties	Uniesty	Raic	Circe a week	Pesonal communication Greek	Video	Web-carrera, Microphone	Geat inpotance
0/20/2017 11:06:39 M	18 to 34	3 years or more	No problems	Uniersty	Very good knowledge		Personal communication English	Caling, Video, Messaging	Web-camera, Headiphones	No importance
0/20/2017 11:22:12 F	18 to 34	1-2 years	No problems	University	hemediate		Personal communication Greek	Video	Web-camera, Microphone	Medum importance
0/20/2017 16:03:42 F	18 to 34	3 years or more	Some dificulties	University	htemediate		Personal communication English	Video	Web-camera	Medum importance
0/20/2017 19:30:35 F	18 to 34	3 years or more	No problems	University	Baic	Sometimes a year or even rarely	Personal communication Greek	Video	Web-camera	Great importance
120/2017 21:34:14 F	18 to 34	3 years or more	Some dificulties	University	hemeőate	Once a week	Pesonal communication English	Calling, Video, Messaging	Web-camera, Head-phones, Microphone	Medium importance
12012017 21:47:02 M	18 to 34	3 years or more	No problems	University	hemediate	Sometimes a month	Personal communication English	Video	Web-camera, Headphones, Microphone	Medium importance
1/21/2017 11:19:47 M	35 to 54	3 years or more	No problems	University	Very good knowledge	Sometimes a month	Personal communication, English	Video, Messaging	Web-camera	Great importance
0/22/2017 3:11:19 F	18 to 34	1-12 months	Some dificulties	University	htemediate	Once a week	Personal communication English	Video	Web-camera	Nedum importance
122/2017 12:25:18 F	18 to 34	1-2 years	No problems	University	hiemeńsie	Every day	Pesonal communication Greek	Video	Web-camera	Great importance
22/2017 17:39:48 F	18 to 34	3 years or more	No problems	University	Very good knowledge			Caling, Video	Web-camera, Head-phones, Microphone	Medum importance
22/2017 17:53:04 M	18 to 34	3 years or more	No problems	Uniesty	Interneciate	Sometimes a year or exercisely	Pesonal communication, Greek	Caling, Nessaging	Web-carriera, Victoriore	Vedum incotarce
122/2017 17:53:04 M 122/2017 21:03:58 F	18 to 34 35 to 54	s years or more 1-2 vears	No proteins Some dificulies	Uniersty	hemediate	Somerimes a morth	Personal communication English	Laing, vessaging Video, Messacino	Web-carleta, Wictophone Web-carleta	Nedum importance
22/2017 23:10:58 F	35 to 54	1-2 years	No problems	University	Intermediate	Sometimes a month	Bussiness communicatio English	Video, Messaging	Web-camera, Headiphones, Microphone	Medium importance
/23/2017 18:37:04 M	35 to 54	3 years or more	No problems	Uniersty	hemeőate	Sometimes a month	Personal communication Greek	Caling, Video	Web-camera, Head-phones, Microphone	Great importance
24/2017 15:38:10 M	35 to 54	3 years or more	No problems	University	Very good knowledge	Once a week	Personal communication, Greek	Caling, Video	Web-camera, Head-phones, Microphone	Medium importance
125/2017 17:54:54 F	18 to 34	3 years or more	Some dificulties	University	hemeőate	Sometimes a year or even rarely		Video, Messaging	Web-camera, Head-phones	Medium importance
/27/2017 13:11:51 F	35 to 54	1-2 years	No problems	University	Very good knowledge	Sometimes a year or even rarely	Bussiness communicatio Greek	Messaging	Web-camera	Medium importance
(30/2017 21:40:51 F	18 to 34	3 years or more	No problems	Secondary	Baic	Sometimes a year or even rarely	Personal communication Greek	Video	Web-camera	Medum impotance
	18 to 34	3 years or more	No problems	University	Very good knowledge	Once a week	Personal communication Greek	Video	Web-camera, Headphones, Microphone	Medium importance
(31/2017 21:26:53 F			Some dificulties	University	Baic	Sometimes a month	Personal communication Greek	Caling, Video, Messaging	Web-camera, Head-phones, Microphone	No importance
	18 to 34	3 years or more								
1/1/2017 19:02:31 F	18 to 34 18 to 34	3 years or more 3 years or more		Uniesty	Baic	Sometimes a vear or even rando	Pescral communication Gavek	Caling, Video	Web-camera Head-chones	Verium importance
03/2017 21:26:58 F 11/1/2017 19:02:31 F 11/3/2017 22:15:54 F 11/3/2017 21:16:39 F		3 years or more 3 years or more 1-2 years	No problems No problems		Basic Basic	Sometimes a year or even rarely Once a week	Pesonal communication Greek Pesonal communication Greek	Caling, Video Video	Web-camera, Headphones Web-camera	

III. RESULTS

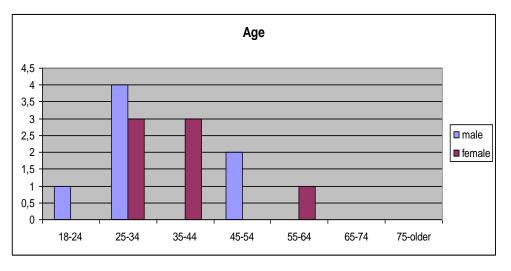
The collection of the results and data of the questionnaire of this survey have shown the following **findings**: (you may see the questionnaire simultaneously)

a) According to the demographic-statistic questions (No 1, 2 and 5) the respondents of this small scale survey were 14 individuals with the following **sex**, **age and educational level.** (Graphics 1, 2, 3a and 3b)

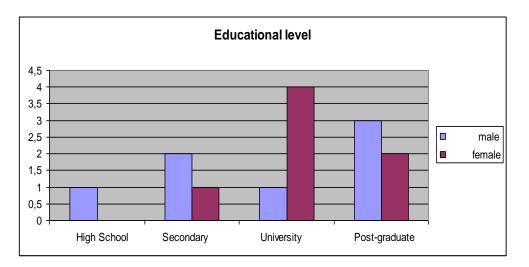
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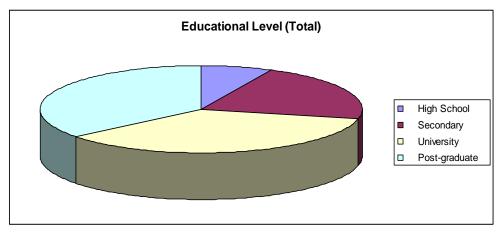
Graphic 1





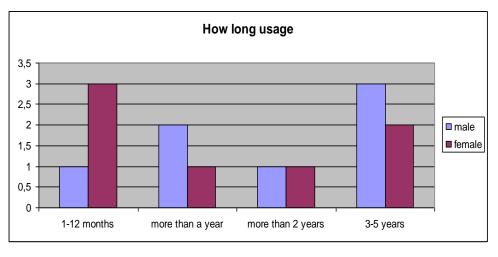


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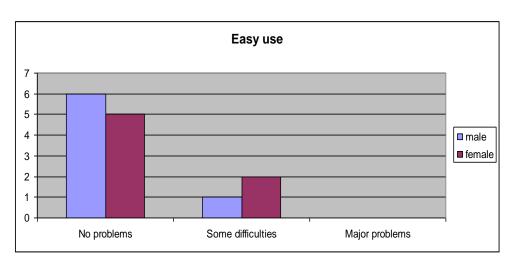




a) The digital literacy of the respondents is recorded with the questions (No 3, 4, 6, 7 and 8) about the time, the difficulty, the skills of technology, the frequency and the purpose of use of skype. (graphics 4, 5, 6a, 6b, 7 and 8)

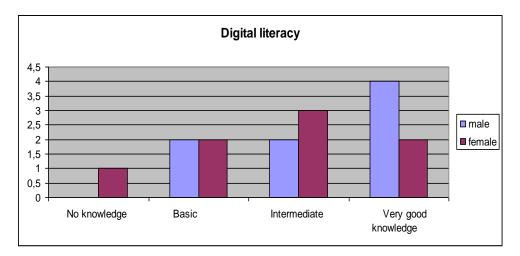




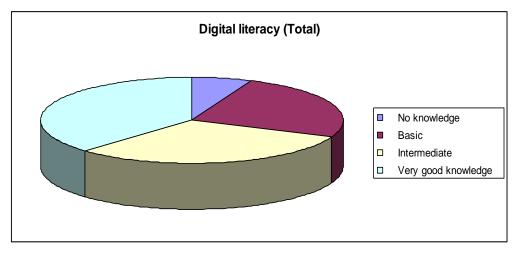


Graphic 5

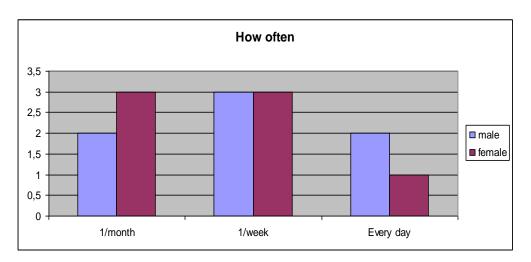
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Graphic 6a

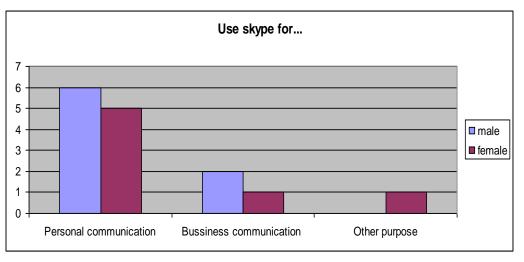






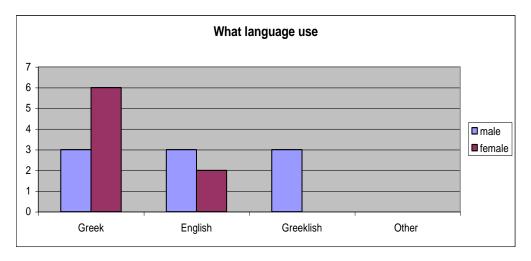
Graphic 7

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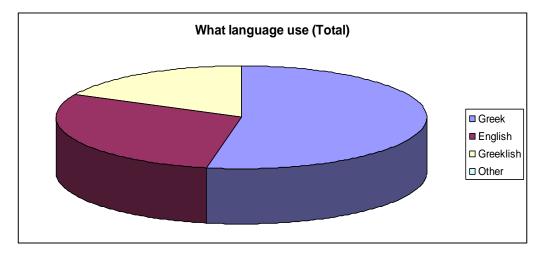




c) The writing practices (language, text messaging, emoticons, e.t.c) of the individuals examine the questions (No 9, 10 and 15) of the questionnaire. (Graphics 9a, 9b, 10, 11a and 11b)

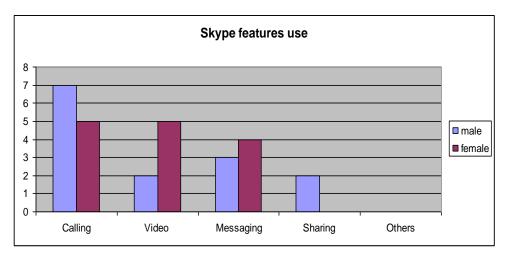


Graphic 9a

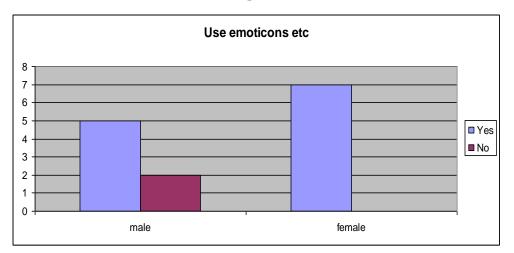


Graphic 9b

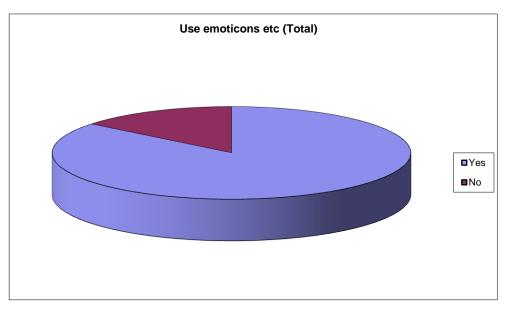
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Graphic 10





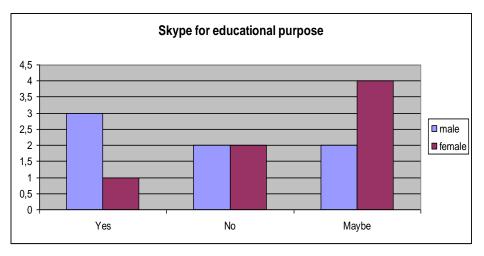




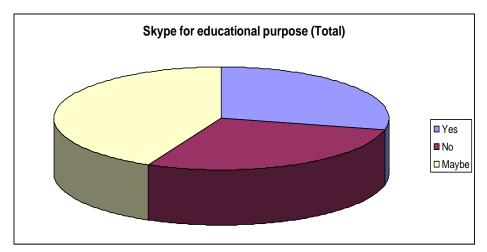
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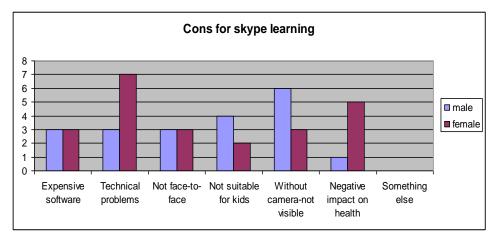
d) The skype as an educational tool, the disadvantages (cons) and advantages (pros) of its use is the purpose of the following questions (No 16, 17, 18 and 19) that reveal the answers (Graphics 12a, 12b, 13a, 13b, 14a, 14b, 15a and 15b)



Graphic 12a

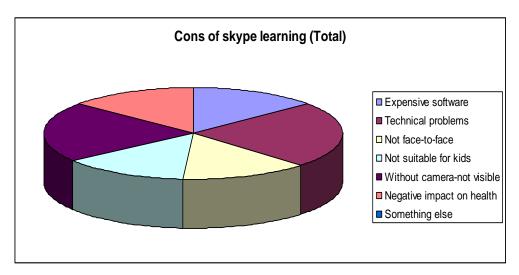


Graphic 12b

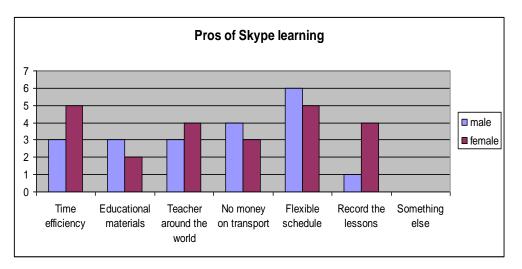


Graphic 13a

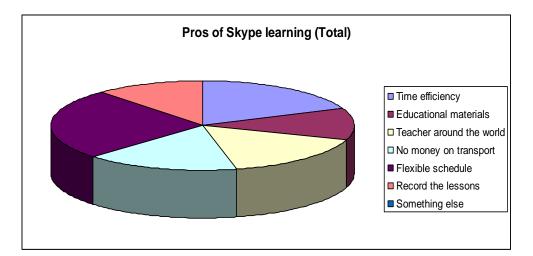
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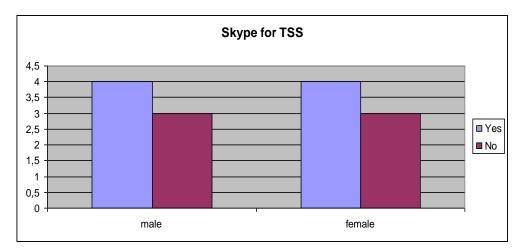
Graphic 13b



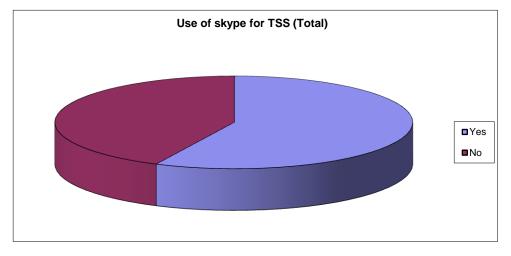
Graphic 14a



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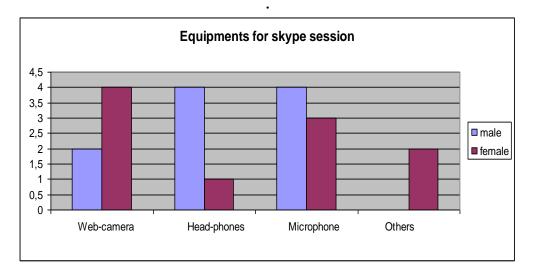


Graphic 15a



Graphic 15b

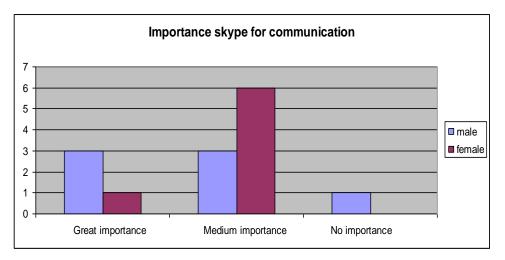
e) The last group of questions (No 11, 12, 13, 14 and 20) are **questions for general information (equipments, importance, payment, devices, recommendation) about the use of skype (Graphics 16, 17, 18, 19 and 20)**



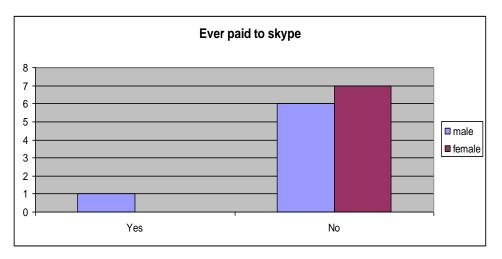
Graphic 16

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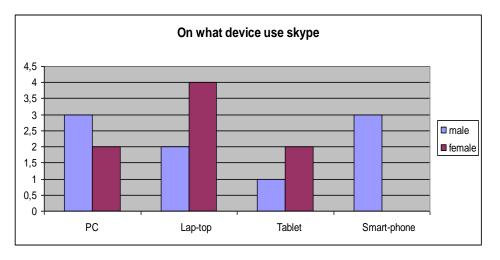
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Graphic 17

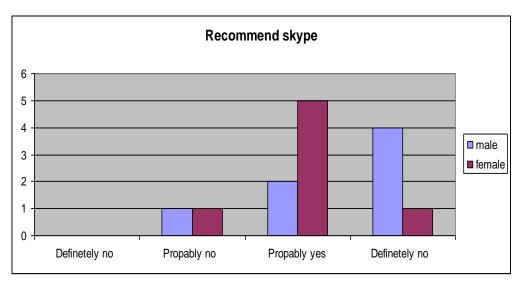






Graphic 19

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IV. DISCUSION AND FINDINGS

We firstly design the **frequency tables and percentage distributions or graphics** and then we can begin **to analyze the data and results.** We must focus on some specific areas of the collected data which may include: Comparison within a survey – Response patterns for certain questions may stand out from the others and may indicate an area for improvement. Comparison across subgroups - Breaking out questionnaire responses by specific characteristics helps teams determine whether certain groups have different experiences. Analysis of group differences depends on the types of attributes captured in the survey, for example, gender, educational status, digital literacy.

The discussion about the results in relation with the parameters (variables) of gender, age, digital literacy or technology use habits, reveals the following statistically significant data about writing practices and use of skype as an educational tool:

- **Males use skype longer time** than females (average: > 3 years)
- Males have got higher level of digital literacy than females (average: > intermediate)
- There is a correlation between the variable of digital literacy and the educational status (level).
- **Greeklish** as a translanguaging practice of writing (Tsokalidou, R. 2016) is used more frequently by males than females.
- Males and females use skype for calling and messaging mainly.
- Females use more emoticons and other symbols in their writing practices than males.
- Skype as an educational tool is more popular to males than females.
- Females record technical problems and negative impact in health as main disadvantages of skype, hierarchically. On the other hand, males respond to this question the absence of camera and the fact that the skype is not available for kids.
- The total representative sample highlights as **main advantage of the skype the flexible schedule and the time efficiency too**. Then, the females make the choice of the availability of the teacher around the world and the possibility to record the lessons. The males prefer it because no money or transport is necessary.
- The majority of the respondents prefers to use skype for Teacher-Student Sessions (TSS).
- The vast majority of the participants in this survey were people 20-45 years old.

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IV. CONCLUSION

"Structurally, **computer-mediated communication (CMC)** can be defined in terms of **two basic parameters**. The first is **synchronicity**. In synchronous CMC, transmission is essentially instantaneous, and interlocutors are assumed to be physically present to read and respond to messages, whereas in asynchronous CMC, neither of these assumptions holds. The second parameter is whether the communication is **one-to-one** (i.e., between two people) or **many-to-many** (i.e., multiple participants' messages being broadcast to multiple potential interlocutors)". (Baron, 2010)

This is the great advantage of communication via skype which is established as a new and widely popular tool of new educational technology, especially to young people.

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