CHAPTER 2

REVIEW OF RELATED LITERATURE

In this chapter, the literature about the use of Information and Communication Technology (ICT) for English teaching is reviewed. It is introduced by defining the term of ICT, then the importance of the use of ICT for teaching. Then, the kind of ICT that become the alternatives for English teaching is also presented. And finally, this chapter tries to connect the use of ICT in English teaching in nowadays context; the 21st century that involves the skills that should be mastered by the students to adapt this era.

A. Definition of ICT

ICT is abbreviation of Information and Communication Technology. According to Perron, et al,[38] they stated that ICTs are electronic tools that can be used to get, copy and save information. This tools is mostly influenced by internet. Another definition of ICT is as stated by Ajayi,[39] that ICT can be defined as a technologycal tool as means of collecting (inputting/gathering), collating (processing/analyzing), and conveying (outputting/transferring) information through technology. Furthermore, this tool is very essential today, as information can be updated, kept and used as it is needed by using this tool. Not only for sharing information, this tool also affects to the way people communicate today. In the last few years, people can communicate easily by using wire phone, or the phone is connected by using wire, therefore it can not be easily brought.

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[38] Brian E. Perron, Harry O. Taylor, Joseph E. Glass, Jon Margerum-Leys, "Information and Communication Technologies in Social Work", *Advances in Social Work* Vol. 11 No. 1 (Spring 2010), 67-81. URL : https://deepblue.lib.umich.edu/bitstream/handle/2027.42/78034/46.pdf.

[39] Ajayi, O. O. "E-learning: A Shorter, Safer, and Surer Route to Reaching the Education For All Destination" Journal of Science and Technical Education (JSTE), Akungba. ISSN: 978-978-49161-9-6, Vol.1, No.1,2009, pgs. 138-145.

However, nowadays, people can communicate with any people in the world by using this tool. The thing that happen in a part of a world can be easily seen by another people in another side of the world at the same time.

For more brief definiton about ICT is as stated by Selvan; et al,[40] ICT or sometimes is synonimous term with Information Technology (IT), however for more common term, it is the integration of communication and telecommunication (telephone lines and wireless signals) computers, middleware as well as necessary software, storage- and audio-visual systems, which enable users to create, access, store, transmit, and manipulate information. From this definition it is clear that this tool has functioned as a tool for communicating information. From those definitions we can conclude that ICT is an electronic tool that is used for making, accessing, manipulating and keeping the information. As its multiple function of this tool become a phenomenon today.

As this tool has become a phenomenon today, people in the world are using it, every aspects of our daily life also deals wth it, and one part that is also affected by this tool is education as stated by Ratheeswari[41] that in this digital era the use of ICT in the classroom is very essential, this way is going to give the learners chances to study and use the skills needed to face 21st century. Moreover, ICT is already proven to be able to improve teaching and learning and it is also important that teachers should perform their role in using this tool as a creator of pedagogical environtment.

B. The Importance of using ICT in English Teaching

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[40] TamilSelvan, T., Sivakumar, Sevukan,R., "Information and Communication Technology", International Journal of Library and Information Science (IJLIS), Volume 1, Issue 1, January-April (2012), pp. 15-28, © IAEME: www.iaeme.com/ijlis.html.

[41] K. Ratheeswari, "Information Communication Technology in Education"; Journal of Applied and Advanced Research, 2018: 3(Suppl. 1) S45☐S47; Phoenix Research Publishers, URL : https://www.researchgate.net/publication/325087961_Information_Communication_Technology_in_Education

The use of technology, recently has become an urgent thing in teaching learning process, inside or outside the classroom[42], this is in line with the result of research done by Simin Ghavifekr and Wan Athirah Wan Rosdy[43], the findings of their study indicate that teachers' well-equipped preparation with ICT tools and facilities is one the main factors in success of technology-based teaching and learning. Thus, the use of technology should be considered as a part of teaching learning process. Furthermore, Ahmadi[44] stated that the use of technology provides interaction between teachers and learners, and a set of input and output. It also helps the students to improve their thinking skills, their confidence and their motivation to study a foreign language, and the class will be student centered.

Moreover, There are some effects in integrating the technology in Language teaching-learning in the classroom. According to Baytak, Tarman, and Ayas[45], stated about the effects of technology in language learning. The result shows that the learners's acquisition is better when teachers use technology in the classroom. Students say that by using technology in the classroom, they feel more fun, and it also helps them to learn many things. Besides, technology makes learning more attractive and enjoyable. Another study about the use of tecnology also states that the use of technology will increase students' motivation, social interaction, coriousity and engagement.

Some studies about ICT integration also show that one of the effects of integrating technology in English class is that the increase of teachers and students cooperation. When teachers permit the students to become assistant in using the technology in teaching learning process, this will make students more confident. Students are given the opportunity to reinforce their opinions and abilities that

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[42] Ahmadi, "The use of technology in english language learning: A literature review" p.115.

[43] Simin Ghavifekr, "Teaching and Learning with Technology:Effectiveness of ICT Integration inSchools" p. 175.

[44] Ahmadi, "The use of technology in english language learning: A literature review" p.116.

[45] Baytak, A., Tarman, B., & Ayas, C. "Experiencing technology integration in education: children's perceptions.International Electronic Journal of Elementary Education", 3(2), 139-15, 2011.

they have. Students can help teachers in using the technology because they are better in mastering the technology while teachers focus on directing the instruction.[46]

From the description above, there is no doubt that the use of ICT has positive effects on foreign language teaching/learning. Hhowever, its impact is highly dependent on the way it is used and the teachers' motivation. Therefore, technological tools and connectivity without human implication is not sufficient to enhance teaching and learning; to be thought as an efficient tool, ICT needs an actual engagement of the teacher and a well-defined pedagogic project. Furthermore, teacher should develop their ability in integrating the technology in the classroom as it has many positive effects to improve english teaching learning process. In this article the writers want to show the alternative technologies that can be used by teachers in teaching-learning process, so teacher will get description about ICT that can be applied in the classroom.

C. Kinds of ICT in English teaching

Some alternative technologies that can be used in the classroom are computer, blogging, software, websites, facebook, edmodo, whatsapp, and you tube. By considering utilizing these technologies, teachers are hoped to get many benefits to improve teaching-learning process.

The first is computer, Becker[47], states that Computer is important instructional tool in language teaching. By using this technology, teachers will get good access when it is prepared well, besides teachers can have some freedom in curriculum. For example, when choosing the method of teaching, teachers usually choose it based on the topic. Some topics are properly applied in group

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[46] Mouza, C. *"Learning with laptops: Implementation and outcomes in an urban, underprivileged school. Journal of Research on Technology in Education",* 40(4), 2008, p.447-472. URL : https://eric.ed.gov/?id=EJ826086

[47] **Becker, H. J. "**Findings from the teaching, learning, and computing survey: Is Larry Cuban right? Education Policy Analysis Archives", **8(51).2000.** *doi:* http://dx.doi.org/10.14507/epaa.v8n51.2000

discussion, while some topics still need explanation, some others can be discussed, and the other need laboratory work. For some topics that require many pictures, animation, and videos, multimedia can be used. Furthermore, when we want to use multimedia for presentation on some topics, powerpoint can be chosen. We can use our own pictures and videos in PowerPoint classes. Today, ICT can be hardware such as computers, projectors, digital cameras, etc., and can also be software such as Microsoft Word, PowerPoint, etc.[48]

Another possibility is blogging. A blog can be created if teachers want to save pictures, material, worksheets, assignment, and notes for related topics. By using blog teacher can discuss the material anywhere, even outside of the classroom. Besides, students can upload their work in teacher's blog. If teachers want to create a blog, they can type 'teacher blog' and they will get many sites to help them. Students also can have their own accounts in teachers' blog. This blog can help teachers by providing more information and platform for students to discuss, which is maybe not possible to be done in a large classroom. Shy, introvert, and slow students also can participate in discussion. Teachers can can upload some assignments so that students can choose. Blog also can be used to test the students and score them too. students will get a chance to learn and relearn, discussing several topics and asking some questions without feeling ashamed. A research about blogging as part of ICT use in university was held by Muwanga-Zake, Parkes, & Gregory[49], their research suggested that university should make a blog that can support proffessional development in pedagogical use of ICT.

The next is using software, there are many softwares that can be chosen by teachers in their teaching, one of the example here is mindvisualizer.

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[48]   Wang, Q., & Woo, H. L "Systematic planning for ICT integration in topic learning." *Educational Technology & Society,* 10(1), 2007, p. 148-156.

[49]   Muwanga-Zake, J. W., Parkes, M., & Gregory, S. "Blogging at university as a case study in instructional design: Challenges and suggestions towards professional development", *International Journal of Education and Development using Information and Communication Technology,* 6(1), (2010). 14-29. URL : http://ijedict.dec.uwi.edu/viewarticle.php?id=796

Mindvisualizer is a kind of e-mindmapping software that can be downloaded online. A study on it has been done by Salasiah[50] who investigated the use of mind-visualizer in teaching writing in Parepare, Indonesia. In her study, she stated that there are a big contribution of mindvisualizer application in teaching writing. the students enjoy the process of teaching-learning by using this software because this software make them easier to improve their ideas in writing. In spite of the benefit, this software also contains a weakness, it is time consuming. Above all, using this software application is recommended to enhance students' writing ability.

Another example of integrating the technology in the classroom is the use of facebook. The research about the use of facebook was done by Rodliyah [51] who use Facebook closed group to enhance the writing of EFL students in Bandung, Indonesia. The result of her study shows that by using facebook closed group the students can enhance their writing ability within four months, especially in improving their vocabulary and grammar, besides, they also respond positively this technology. In her research, E-dialogue journal writing through facebook closed group is used.

Facebook is not the only form of social media utilized for interactive language learning. Edmodo is also categorized as social media, but it is used specifically for education. It is a social networking site which is used to facilitate interaction between teacher and students. When teachers want to use Edmodo, they can register freely. A research about the use of Edmodo has been done by Okumura[52] and Khongchan[53] Their research is about Edmodo as a type of web

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[50] Salasiah, " Integrating Technology in English Language Teaching: Global Experiences and Lessons for Indonesia".

[51] Rodliyah, R. S.,."Using Facebook Closed Group to Improve EFL Students' Writing", *TEFLIN Journal,* 27(1), 2016, p. 82-100.

[52] Okumura, S. (2016). *The use of an educational social networking site for English language learning beyond the classroom in a Japanese university setting.*URL : https://mukogawafrom.repo.nii.ac.jp/?action=repository_action_common_download&item_id=686&item_n o=1&attribute_id=22&file_no=1

[53] Kongchan, C. "How Edmodo and Google Docs can change traditional classrooms. In *The*

2.0 technology for teaching. Another research is done by Khongjan, he investigated the use of Edmodo and google docs in online classroom community in Thailand. His research shows that Edmodo and Google docs should be introduced first to the students before it is used. Moreover, Okumura, in his research about the use of Edmodo in language teaching in japanese university setting. His research shows the positive aspects of Edmodo. It shows that students develop their communication network with other students. This activity improves students' communicative competence. Besides, it makes teacher can explore the technology in English teaching.

Furthermore, Susilo [54] and Jafari & Chalak[55] also conduct a research about using Whatsapp for teaching. Whatsapp is a mobile instant messaging application for smartphones. This application permits its user to send and accept messages, images, or video to others as long as they have internet connection, They said that Whatsapp can be a miniature classroom by making small class discussion in a chat group. Another study about the use of whatsapp in teaching process is done by Alsaleem[56] about using WhatsApp applications to enhance students' writing, speaking, vocabulary and word choice in English dialogue journals. The result of this research shows that WhatsApp can enhance students writing, speaking, vocabulary and word choice ability. Because students can freely share their ideas.

Those are the kinds of ICT that can be alternatives to be used by teachers in the classroom. Based on the researches above, teacher should consider the use

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European Conference on Language Learning 2013V. URL: http://iafor.info/archives/offprints/ecll2013-oifprints /ECLL2013_0442.pdf

[54] Susilo, A."Exploring Facebook and Whatsapp as Supporting Social Network Applications for English Learning in HigherEducation". 2014 URL : http://repository.ut.ac.id/4930/1

[55] Jafari, S., & Chalak, A. *"The Role of WhatsApp in Teaching Vocabulary to Iranian EFL Learners at Junior High School". English Language Teaching"* 2016, 9(8), 85. https://dx.doi.org/10.5539/elt.v9n8p85

[56] Alsaleem, B. I. A.**, "*The effect of "WhatsApp" electronic dialogue journaling on improving writing vocabulary word choice and voice of EFL undergraduate Saudi Students".*

of technology that can be used to improve teaching learning process. The more references the teachers have, the more experiences they get to apply the use of technology in the subjects they handle. Therefore, the use of ICT can not be separated with the recent teaching English. As we are now in 21st century, the skills that should be mastered by the students to face their future is depended a lot at the use of technology, that is why teaching English needs the use of technology to make the students accustomed to living in the 21st century.

D. Teaching English in 21st Century

English in Indonesia is still in position of foreign language as Indonesia is a part of developing country[57]. Language is primarily an instrument of communication among human being in a community. Language is a means of interaction between and among people. Here, it has function as a tool which connects them in their surroundings. People realize that without language they cannot interact each other. Language is the most important part of human existence and social process that has so many functions such as to perform the life of human beings. It allows people to express their thought, feelings ideas and to communicate with others. Language can become a bridge to connect one another that live in different places and cultures. By using a language one can gain information, knowledge, and express one's feeling, and emotions., English as one of international languages, which is used throughout the world is used in many fields of life such as: in politics, economics, social and education[58]. A recent study of language learning in 25 countries shows that English is the most popular modern language studied worldwide, and there are number of courses in education institutions done through the medium of English. Because of that, the need of

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[57] Savignon, S. J. "Interpreting Communicative Language Teaching: Contexts and Concerns in Teacher Education*",* 2002 London: Yale University Press.

[58] Spicer-Escalante, M. L. & de Jonge-Kannan, K. "Cultural Mismatch in Pedagogy Workshops: Training Non-native Teachers in Communicative Language Teaching." Theory and Practice in Language Studies, 4(12), 2014 2437-2444.

teaching is more emphasized in English than Indonesia language. Far as we know today, many up-to-date books, research articles, and new information about the world can be obtained much more easily and most readily in English. Therefore, English as a language in international communication is clearly needed by many learners to deliver thought and interact in a variety of situation. English is one of the foreign languages for Indonesian students that must be learnt in school since kindergarten level until university level. According to Broughton; et al [59] stated that unlike English as a second language, EFL is only taught in schools; it has nothing todo with the national or social life of the learners.

As a modern language, English is actually should be taught by using modern method, During the process of communicative teaching, the teacher is considered to be a mere facilitator. Students work on tasks in small groups. As a result, they have the chance to interact more and use language for communication. In addition, the communicative language teaching approach prepares learners to use the target language for real life situations. Nevertheless, less attention is given to the form and structure of language. Teachers focus on meaning more and avoid correcting errors [60].

The education in Indonesia moves dynamically. After the change from the 2006 curriculum to the 2013 curriculum, various updates have been made to produce an education system that is in accordance with the times. These changes are made as the system has to support the students to survive in their future; the era of 21st century where many new technologies are widely used.p that is why the educational system has to prepare our students in facing the 21st century era, as one task of education is preparing our students to face their world later [61]. Today's teachers should be aware with the students' envirortment. Students were

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[59] Broughton, G., Brumfit, C., Flavell, R., Hill, P. & Pincas, A. "Teaching English as a Foreign Language",p.6. 2003, London: Routledge.

[60] Larsen-Freeman, D & Anderson, M. "Techniques and Principles in Language Teaching", p. 122-125, 2011, Oxford: Oxford University Press.

[61] Marr Bernard, "why everyone must get ready for 4th industrial Revolution", 2016, URL : https://www.forbes.com.

born in the era that since they were kids, they already familiar with the technology. For example, teens who are very close to devices and or clever devices since they had been from babies. They are normally referred to as digital natives. While many teachers know devices and other units as digital immigrants. It is an undertaking for teachers to expect this situation in their studying process in the closeness of students with technology, such as gadgets, in the learning procedure in the classroom. Otherwise, our instructions will be boring[62] (Afrianto, 2018).

Besides mastering the ICT, another abilities that must be mastered by students to survive in their future is ability to solve problems or find solutions (problem solving), social skills and the ability to go through the process. This then cones in the skills students must master in facing the 21st century, namely 4C; Collaborative, Critical, Communicative, and Creative [63]. By mastering 4C, students are expected to cope their problems in the future. Therefore English teachers as the spearhead in the world of education must be able to apply this in learning activities.

The first skill that students must master in facing 21st century is collaboration (Collaborative). Collaboration is defined as 'the ability to work in teams or groups and cooperatively work with others', the ability to work in groups and be able to work with team members. The ability to work together in teams is very necessary so that students can find solutions or solve problems found [64]. In activities that use collaboration, learning will be student-centered, because the activity will change from teaching (learning) to learning (learning), so students will learn and learn from each other with their friends. That way students' thinking

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[62] Afrianto, " Being a Professional Teacher in the Era of Industrial Revolution 4.0: Opportunities, Challenges and Strategies for Innovative Classroom Practices",p.7.

[63] World Economic Forum, "The Global Competitiveness Report 2015-2016", 2015, URL : http://www3.weforum.org/docs/gcr/2015-016/Global_Competitiveness_Report_2015-2016.pdf

[64] Maya Bialik & Charles Fadel, "Meta-Learning for the 21st Century: What Should Students Learn?", , 2015 URL : https://curriculumredesign.org/wp-content/uploads/CCR-Meta-Learning-FINAL-Nov.-17-2015.pdf

abilities will be honed, because they no longer rely on the teacher in solving problems but they can exchange ideas with fellow friends to find solutions.

The second skill that students must master is critical thinking. Critical thinking is the ability to deduce, know how to use information to get solutions. In making this conclusion proper delivery of information is needed so that the information conveyed can be understood comprehensively.

The third ability is communication (communicative). Communication is the sending and receiving of messages or news between two or more people so that the intended message can be understood. In facing the 21st century, the ability to express opinions / ideas / thoughts both verbally and in writing is needed so that information can be transferred appropriately. In this way English is very needed, as this language is used for communication by about one-sixth of the world population.[65]

The next ability needed in dealing with the future of students is creative (creative). Creativity is connecting related connections to produce something new. Creativity will lead to innovation or renewal. This creative process has led many successful inventors to their findings. For example, the presence of mobile phones today is a form of creativity in the presence of telephones.

Those are the aspects that should be considered by English teachers in their teaching as teaching in the 21st century needs to involve the skills needed in this century.

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[65] Broughton, G. "Teaching English as a Foreign Language",p.6