

**THE CORRELATION BETWEEN DIGITAL LITERACY AND READING
PROFICIENCY OF ENGLISH PRE-SERVICE TEACHERS AT
SRIWIJAYA UNIVERSITY**

A Thesis by

M. Salman Alfarisyi

Student Number: 06011181621017

English Education Study Program

Language and Arts Education Department



FACULTY OF TEACHER TRAINING AND EDUCATION

SRIWIJAYA UNIVERSITY

INDRALAYA

2020

**THE CORRELATION BETWEEN DIGITAL LITERACY AND READING
PROFICIENCY OF ENGLISH PRE-SERVICE TEACHERS AT
SRIWIJAYA UNIVERSITY**

A Thesis by

M. Salman Alfarisyi

Student Number: 06011181621017

English Education Study Program

Language and Arts Education Department

FACULTY OF TEACHER TRAINING AND EDUCATION

SRIWIJAYA UNIVERSITY

2020

Approved by,

Advisor 1,

Advisor 2,



Eryansyah, M.A., Ph.D.
NIP. 196907181995121001



Hesti Wahyuni Anggraini, S.Pd., M.Pd
NIP. 198609282014042001

Certified by,

Coordinator of English Education Study Program,



Hariswan Putera Jaya, S.Pd., M.Pd
NIP 197408022002121003

**THE CORRELATION BETWEEN DIGITAL LITERACY AND READING
PROFICIENCY OF ENGLISH PRE-SERVICE TEACHERS AT
SRIWIJAYA UNIVERSITY**

A Thesis

by

M. Salman Alfarisyi

Student Number: 06011181621017

This thesis was defended by the writer in final program examination and was approved by the examination committee on:

Day : Thursday

Date : July 16th, 2020

ACADEMIC ADVISOR APPROVAL:

1. Academic Advisor: Eryansyah, M.A., Ph. D.



2. Academic Advisor: Hesti Wahyuni Anggraini, S. Pd., M. Pd.



Palembang, July 28th, 2020

Certified by,

Coordinator of English
Education Study Program,



Hariswan Putera Jaya, S.Pd.,M.Pd.

NIP. 197408022002121003

DECLARATION

I, the undersigned

Name : M. Salman Alfarisyi
Student Number : 06011181621017
Study Program : English Education

Certify that the thesis entitled “The Correlation between Digital Literacy and Reading Proficiency of English Pre-Service Teachers at Sriwijaya University” is my own work and I did not do any plagiarism or inappropriate quotation against the ethic and rules commended by the Ministry of Education Indonesia Number 17 2010 regarding the plagiarism in higher education. Therefore, I deserve to face the court if I found plagiarized in this work.

Indralaya, July , 2020

The Undersigned



M. Salman Alfarisyi

NIM. 06011181621017

THESIS DEDICATIONS AND MOTTO

This thesis is especially dedicated to:

- My beloved parents, Yunus and Widiya, who have given me invaluable educational opportunities and never stop to support, pray, and love me.
- My advisors, Eryansyah, M.A., Ph. D and Hesti Wahyuni Anggraini, S. Pd., M. Pd., thank you very much for your time, guidance, and support during the process of writing this thesis.
- My beloved sister, Naziha Dhabita, who have also supported and entertained me when I was bored doing this thesis. My school mate until now, Berie Poetra Akbar, who is kind enough to provide a place with wifi facility for me to work on this thesis.
- My closest friends at campus: Viranny, Biksul, Mbak Sin, Bebe, Abey, Mansyah, Jakik, Boyo who have supported me throughout the process. Especially Viranny Veroricca, thank you for always accompanying, supporting, and giving me suggestion.
- My fellow friends of English Education Study Program'16 class at Sriwijaya University. Thank you for the unforgettable memories.

Motto:

“Take a chance, take a risk, and make a change”

ACKNOWLEDGEMENTS

This thesis was written to fulfill one of the requirements to accomplish Undergraduate Degree (S1) at English Education Study Program, Language and Arts Education Department, Faculty of Teacher Training and Education, Sriwijaya University.

The writer would like to express his great-sincere gratitude to Allah SWT, the Almighty for the blessing and mercies so that this thesis could be finished.

The deepest gratitude and great appreciation are expressed to the writer's advisors, Eryansyah, M.A., Ph. D. and Hesti Wahyuni Anggraini, S. Pd., M. Pd. who have given their valuable advice, guidance, suggestions, and time in the process of writing this thesis.

The writer is also very grateful to the Dean of Faculty of Teacher Training and Education, Prof. Sofendi, M.A., Ph. D and his staff members, the head of Language and Arts Education Departement, Dr. Didi Suhendi, M. Hum and the Head of English Study Program, Hariswan Putera Jaya, S. Pd., M. Pd. for their assistance in administrative matters and also to all lecturers of English Education Study Program for all the knowledge that could not be expressed by words.

Last, the writer also would like to express his greatest and deepest gratitude to his parents and sister for their love, support and advice all this time so that the writer could finish this thesis.

Indralaya, July , 2020

The Writer

M. Salman Alfarisyi

TABLE OF CONTENTS

TITLE PAGE	
APPROVAL	i
DECLARATION	iii
DEDICATION	iv
ACKNOWLEDGEMENT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF APPENDICES	x
ABSTRACT	xi
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Research Problem	5
1.3 Research Objective	5
1.4 Significance of the Study	5
CHAPTER II LITERATURE REVIEW	6
2.1 Digital Literacy	6
2.1.1 The Elements of Digital Literacy	6
2.2 Literacy Skills	8
2.3 Information and Communication Technology	9
2.4 Reading	10
2.4.1 Purpose of Reading	10
2.4.2 Various Types of Reading	11
2.5 Critical Reading	11
2.6 Reading Proficiency	12
2.7 Previous Related Study	14

CHAPTER III RESEARCH METHODOLOGY	17
3.1 Method of the Study	17
3.2 Variables of the Study	17
3.3 Operational Definitions	18
3.4 Population and Sample	18
3.4.1 Population.....	18
3.4.2 Sample	19
3.5 Techniques for Collecting Data.....	20
3.5.1 Digital Literacy Test.....	20
3.5.2 Reading Proficiency Test.....	20
3.5.3 Readability.....	21
3.6 Validity and Reliability of the Instrument	23
3.6.1 Validity of the Test.....	23
3.6.2 Reliability of the Test.....	24
3.7 Technique for Analyzing the Data	25
3.7.1 Technique for Analyzing Reading Proficiency Test and Digital Literacy Test	25
3.7.2 Technique for Analyzing Correlation Analysis	25
3.7.3 Regression Analysis	26
 CHAPTER IV FINDINGS AND INTERPRETATIONS	 27
4.1 Findings	27
4.1.1 Result of Digital Literacy Test.....	27
4.1.2 Result of Reading Proficiency Test.....	28
4.1.3 Normality of the Data.....	30
4.1.4 Result of the Correlation between Digital Literacy and Reading Proficiency of English Pre-Service Teachers at Sriwijaya University	31
4.1.5 Regression Analysis	31
4.2 Interpretations	32

CHAPTER V CONCLUSIONS AND SUGGESTIONS.....	36
5.1 Conclusions.....	36
5.2 Suggestions	36
 REFERENCES	 38

LIST OF TABLES

Table 1 The Population of the Study	19
Table 2 The Sample of the Study	19
Table 3 Reading Proficiency Test Items	21
Table 4 The Level of Readability	22
Table 5 The Readability of Reading Proficiency Texts	22
Table 6 Reading Proficiency Test Items (Valid)	24
Table 7 The Category of Students' Reading Proficiency and Digital Literacy	25
Table 8 Table of Degree of Correlation Coefficient	26
Table 9 Score Distribution of the Students' Digital Literacy Test	27
Table 10 The Result of Digital Literacy Items	27
Table 11 Score Distribution of the Students' Reading Proficiency Test	28
Table 12 The Result of Reading Proficiency Items	29
Table 13 The Result of Normality Test.....	30
Table 14 The Result of Correlation Analysis	30
Table 15 The Result of Regression Analysis	31

LIST OF APPENDICES

APPENDIX	:	Name of Appendices
APPENDIX A	:	Digital Literacy Test
APPENDIX B	:	Reading Proficiency Test
APPENDIX C	:	The Result of Digital Literacy Test (Try Out)
APPENDIX D	:	The Result of Reading Proficiency Test (Try Out)
APPENDIX E	:	The Validity and Reliability of Digital Literacy Test
APPENDIX F	:	The Validity and Reliability of Reading Proficiency Test
APPENDIX G	:	The Level of Appropriateness of Reading Proficiency Test
APPENDIX H	:	The Result of Digital Literacy Test
APPENDIX I	:	The Result of Reading Proficiency Test
APPENDIX J	:	The Students' Answer Sheet of Digital Literacy Test and Reading Proficiency Test
APPENDIX K	:	Surat Usul Judul Skripsi
APPENDIX L	:	Surat Keputusan Pembimbing Skripsi
APPENDIX M	:	Surat Telah Melaksanakan Try Out dari UIN RF Palembang
APPENDIX N	:	Surat Izin Penelitian dari FKIP Universitas Sriwijaya
APPENDIX O	:	Research Design Seminar Approval (pre)
APPENDIX P	:	Research Design Seminar Approval (post)
APPENDIX Q	:	Research Design Seminar Suggestion List
APPENDIX R	:	Preliminary Research Report (pre)
APPENDIX S	:	Preliminary Research Report (post)
APPENDIX T	:	The Final Examination Approval (pre)
APPENDIX U	:	The Final Examination Approval (post)
APPENDIX V	:	Thesis Consultation Card

THE CORRELATION BETWEEN DIGITAL LITERACY AND READING PROFICIENCY OF ENGLISH PRE-SERVICE TEACHERS AT SRIWIJAYA UNIVERSITY

ABSTRACT

The need of technology has increased dramatically in this era because all things use technology in the process. As a result, the ability to master digital literacy is growing rapidly every day. The purpose of the study is to find out the correlation between digital literacy and reading proficiency. The participants of the study were 66 of English pre-service teachers at Sriwijaya University. The instruments of the study were digital literacy test and reading proficiency test. Digital literacy test had 25 questions which was adopted from Mspascual in 2018 and a reading proficiency test which was adopted from TOEFLIBTee (2018); Sau (2018); Fitria (2019); and Sauqigobel (2018) consisted of TOEFL like test with 30 items of multiple-choice that had been matched to the reading level of students. The findings showed that 54.5% of student's scores were in good category of digital literacy test. The result of the reading proficiency test showed that 32% of student's scores were in very poor category. To find out the correlation, Pearson Product Moment Correlation Coefficient was used in SPSS 25. The result revealed that there was a significant weak correlation between digital literacy and reading proficiency because the p-value (0.003) was lower than (0.05). It means that digital literacy significantly influenced students' reading proficiency, Regression Analysis was applied in SPSS 25. Since the adjusted R square was 0.113, digital literacy in the aspect of information literacy contributed 11.3% to reading proficiency. It can be concluded that students' digital literacy did not fully represent students' reading proficiency.

Keywords: *Correlation, digital literacy, reading proficiency, English pre-service teachers*

A Thesis by an English Education Study Program Student, Faculty of Teacher Training and Education, Sriwijaya University

Name : M. Salman Alfarysi
NIM 06011181621017

Approved by,

Advisor 1,

Advisor 2,



Eryansyah, M.A., Ph. D.
NIP. 196907181995121001



Hesti Wahyuni Anggraini, S.Pd., M.Pd.
NIP. 198609282014042001

Certified by,

Coordinator of English Education Study Programs



Hariswan Putera Jaya, S.Pd., M.Pd.
NIP 197408022002121003

CHAPTER I INTRODUCTION

This chapter presents (1) background of the study, (2) problem of the study, (3) objective of the study, (4) significance of the study.

1.1 Background

In this advancement of technology, the information can be shared and accessed easily and quickly by many people, so 21st century skills are needed to be mastered in order to be able to deal with technological advances so quickly. 21st century skills are divided into three parts which are learning skills, life skills, and literacy skills (Applied Educational Systems, 2020). Those skills are being the basic skill that can create a better life for a human being in every aspect of life, such as education and job. Therefore, the 21st century skills are being the most necessary skills that people must possess.

In learning skills, there are four kinds of competencies to fulfill 21st century skills, well-known as 4C: critical thinking, creativity, communication, and collaboration skills (Rochmawanti, Wiyanto, & Ridlo, 2019). They also states that critical thinking skills are deep thinking abilities from different angles, so that a useful alternative can be found. Creative skills produce solutions, innovative strategies to solve the problem, and practical progress to do innovative things that improve the workplace, while communication skills are an attempt on the part of learners to explain information (in English) to others, and teamwork is the way they work as a team.

Life skills are divided into five main points, i.e. flexibility, leadership, initiative, productivity, and social skills (Zook, 2019). Zook (2019) states that flexibility is an example of someone's ability to respond to change situations, leadership is a passion for reaching targets, leading the community on the required steps, and collaborating collaboratively to accomplish those goals. True success also involves initiative to allow students to become self-starters. To compare with

the program, skills of the 21st century often allow students to learn about profitability. It is the student's ability to perform assignments in an acceptable period of time, and social skills which are essential to the continuing progress of a career. Business is always achieved by the relations that one person has created with those around them.

Literacy skills are also divided into three points, i.e. information literacy, media literacy, and technology literacy (Zook, 2019). Zook (2019) also argues that information literacy is a crucial skill. It lets students to understand the reality, including the data points that they are going to experience online. Media literacy is the practice of recognizing reporting processes, media, and sources, while at the same time distinguishing between those that are reliable and those that are not, whereas technology literacy is another step towards teaching students about devices involved in the information age.

Literacy skills are very mandatory to be mastered because they will be useful in daily life and career achievement. Faleti (2017) states that an essential aspect of career advancement or achievement can be a solid foundation of literacy. A prerequisite of the application process is to write a cover letter along with submitting a resume for many corporate or office positions. A solid foundation for literacy would play a vital role in composing and presenting such materials successfully. For nonverbal communication, successful use of digital literacy skills also plays a major role. Long-distance communication through social media can often result in distorted messages, as definitions may not be apparent. Digital literacy has a part to play in promoting contextual awareness, using both cognitive and technical skills.

The need of technology has increased over time for teaching and learning activities as in the current covid-19 pandemic. Therefore, students must be able to use technology and master digital literacy. Digital literacy for learning is more than simply knowing how to use technology, it also has the right information management and analytical thinking capabilities, as well as the right online behaviour. Beetham and Sharpe (2007) state that digital literacy goes beyond the

acquisition of basic ICT skills through the use of technology, including awareness, attitudes and the ability of individuals to identify, access, manage, integrate, evaluate, analyze and synthesize digital resources and content, build new knowledge, create media expressions, and communicate with others in specific life situations. On the other hand, digital literacy has been described as a framework for a number of complicated and embedded sub-disciplines, composed of understanding, abilities, ethics and creative outcomes within the scope of an ideal digital network (Calvani, Cartelli, Fini, & Ranieri, 2008).

In the field of education both at school or university level, students are always associated with technology to their learning activities. Sometimes, students tend to look for their learning materials on the web or e-books rather than in traditional books. According to Rainie and Duggan (2012), the number of readers of e-books is increasing. In the past year, the number of readers of e-books increased from 16% of all Americans ages 16 and older to 23%. At the same time, the number of readers of printed books in the previous 12 months decreased from 72% of the population aged 16 and older to 67%. It means that students tend to read e-books rather than traditional books. This phenomenon is in line with that conveyed by Hubbard (2013). He said that English pre-service teachers are required to develop digital literacy abilities and language learning strategies technology-enhanced language learning (TELL) settings. They need to be able to achieve accomplishment in remote environments. Specifically, it is important to describe the degree of digital literacy of target language students and to recognize factors that affect their usage of digital technology in local circumstances for the better use of digital language education for learners.

In addition, Lankshear and Knobel (2011) discussed the need for a paradigm shift in teacher education programs to digitally train the next generation of teachers and become digital technology leaders. Meanwhile, Noor, Razak, and Shariman (2012) argue that even individuals often have access to ICT, it is not enough to ensure that they use content and sources in a productive manner. Therefore, they

need digital literacy competence to use digital content for finding relevant information in English, especially for academic purposes.

Sometimes, people utilize technology to read e-books or articles online for their academic purposes. Reading is one of the language skills besides speaking, listening, and writing. According to Cimmiyotti (2013), reading is an integral part of every educational process, as all subjects learned at all stages of the education system require reading. Bråten (1997) as cited in Hellekjær (2009) also states that reading is understood as a more complex process than merely reading written words in a text. It is the effective development of meaning in an interconnected system between text and reader awareness. According to Tadros (2014), reading proficiency requires students to be able to identify the words in the passage precisely because they have enough knowledge and thought to understand the words, phrases, and paragraph.

The study conducted by Cote and Milliner (2018) entitled “A Survey of EFL Teachers’ Digital Literacy: A Report from a Japanese University” found that language teachers in this survey have a high level of technical expertise, acknowledging the positive contribution they provide to their career, and most are able to further improve their knowledge and management of digital activities.

Another study conducted by Noor, Razak, and Shariman (2012) entitled “Digital Literacy Competence for Academic Needs: An Analysis of Malaysian Students in Three Universities” concluded that while students enjoy digital content that introduces knowledge in an engaging manner with a range of multimodal formats, they are unable to transcend the semantic practices of digital literacy due to language barriers, short attention span and low motivation or interest in information or topics on digital content pages.

Based on the explanation above, the researcher is interested in investigating whether or not there is a significant correlation between digital literacy and reading proficiency of English pre-service teachers at Sriwijaya University.

1.2 Research Problem

Based on the background above, the problem of the study is:

1. Is there any significant correlation between digital literacy and reading proficiency of English pre-service teachers at Sriwijaya University?

1.3 Research Objective

Based on the problem above, the objective of the study is to find out:

1. Whether or not there is a significant correlation between digital literacy and reading proficiency of English pre-service teachers at Sriwijaya University.

1.4 Significance of the Study

- **For Students**

This research is expected to give students information about the important of digital literacy and impact to their reading proficiency so that they are ready to face digital era.

- **For Lecturers**

This research is expected to help lecturers varying their teaching style and strategies in applying technology in language learning especially English.

- **For Future Researchers**

This research is expected to give more information to the future researchers as a guideline in order to conduct the same study.

REFERENCES

- Alberta Education. (2015). *Literacy and Numeracy*. Retrieved from: <https://education.alberta.ca/literacy-and-numeracy/literacy/everyone/literacy-support-documents/>
- Allen, J. V. (2016). Developing digital literacy through guided reading instruction. *The Florida Reading*, 51(1), 16-20.
- Applied Educational Systems. (2020). *What are 21st century skills?*. Retrieved from: <https://www.aeseducation.com/career-readiness/what-are-21st-century-skills>
- Anderson, M., & Anderson, K. (1998). *Text types in English 3*. Victoria, Australia: Macmillan.
- Beetham, H., & Sharpe, R. (2007). *An introduction to rethinking pedagogy for a digital age: Rethinking pedagogy for a digital age*. Oxon, UK: Routledge.
- Belshaw, D. A. (2012). *What is 'digital literacy'? : A pragmatic investigation*. Durham University.
- Boechler, P., & Wasniewski, E. (2014). Relationships between digital literacy and printed literacy: Predictors of successful on-line search. *Proceedings of Society for Information Technology & Teacher Education International Conference*, 1755-1758.
- Bond, G. L., & Wagner, E. G. (1950). *Teaching the child to read*. New York, NY: Macmillan.
- Brown, H. D., & Abeywickrama, P. (2004). Language assesment. *Principles Classroom Practices*. White Plains, NY: Pearson Education.
- Bulger, M. E., Mayer, R. E., & Metzger, M. J. (2014). Knowledge and processes that predict proficiency in digital literacy. *Reading and Writing*, 27(9), 1567-1583. Retrieved from: <https://doi.org/10.1007/s11145-014-9507-2>
- Buku Pedoman Akademik dan Kemahasiswaan Tahun Akademik 2018/2019. (2018). Retrieved from: <http://www.unsri.ac.id/download/Pedoman%20Akademik%20dan%20Kemahasiswaan%202018-2019.pdf>
- Calvani, A., Cartelli, A., Fini, A., & Ranieri, M. (2008). Models and instruments for assessing digital competence at school. *Journal of E-learning Knowledge Society*, 4(3), 183-193.

- Cate-Darnell, D. M. (2002). Three key factors that influence reading comprehension. *Master's Thesis*. California State University. Retrieved from: <https://www.semanticscholar.org/paper/Three-key-factors-that-influence-reading-Cates-Darnell/6b61d8c1eb312e3491c1508c8fd1f9722a2f2b4e>
- Cimmiyotti, C. B. (2013). Impact of reading ability on academic performance at the primary level. *Master's Thesis*. Dominican University of California. Retrieved from: <https://doi.org/10.33015/dominican.edu/2013.edu.18>
- Cline, F., Johnstone, C., & King, T. (2006). Focus group reactions to three definitions of reading (As originally developed in support of NARAP goal 1). *National Accessible Reading Assessment Projects*. Retrieved from: <https://files.eric.ed.gov/fulltext/ED506575.pdf>
- Cote, T., & Milliner, B. (2018). A survey of EFL teachers' digital literacy: A report from a Japanese University. *Teaching English with Technology*, 18(4), 71-89.
- Creswell, J. W. (2012). *Collecting qualitative data. Educational Research: Planning, Conducting and Evaluating Quantitative and Qualitative Research*. (4th ed.). Boston, USA: Pearson.
- Davids, V. (2011). *Reading – Proficient reader*. Retrieved from: http://bl.allofe.com/gen/blvs/Reading_Proficienct_Reader_p269.html
- DuBay, W. H. (2004). *The principles of readability*. Costa Mesa, CA: Online Submission.
- Faleti, Y. (2017). *The importance of literacy in the 21st century*. Retrieved from: <https://www.stevenson.edu/online/about-us/news/importance-literacy>
- Fitria, T. N. (2019). *TOEFL reading comprehension soal dan pembahasan*. Retrieved from: https://www.academia.edu/40573893/TOEFL_READING_-_Soal_and_Pembahasan
- Fraenkel, J. R., Wallen, N. E., & Hyunn, H. H. (2012). *How to design and evaluate research in education*. New York, NY: McGraw-Hill.
- Hague, C., & Payton, S. (2010). Digital literacy across the curriculum: A Futurelab handbook. Bristol, UK: Futurelab.
- Hellekjær, G. O. (2009). Academic English reading proficiency at the university level: A Norwegian case study. *Journal Reading in a Foreign Language*, 21(2), 198-222.

- Hsu, H.-F. (2010). The impact of implementing English proficiency tests as a graduation requirement at Taiwanese Universities of Technology. *Doctoral Dissertation*. University of York. Retrieved from: <https://core.ac.uk/download/pdf/40039368.pdf>
- Hubbard, P. (2013). Making a case for learner training in technology enhanced language learning environments. *Journal Calico*, 30(2), 163-178.
- Hughes, A. (2003). *Testing for language teachers*. Cambridge, UK: Cambridge University Press.
- Inderawati, Petrus, & Jaya (2019). Exploring and identifying technology-based dynamic learning through social media in academic writing. *English Community Journal*, 3(1), 317-324. Retrieved from: <https://doi.org/10.32502/ecj.v3i1.1697>
- Jama, D., & Dugdale, G. (2012). *Literacy: State of the Nation – A picture of literacy in the UK today*. London, UK: National Literacy Trust.
- Jisc. (2014). *Developing digital literacies*. Retrieved from: <https://jisc.ac.uk/guides/developing-digital-literacies>
- Kozak, M. (2017). *The types of reading and exercises for teaching reading*. Retrieved from: http://www.e-osnova.ru/PDF/osnova_10_0_696.pdf
- Lankshear, C., & Knobel, M. (2011). New literacies: Everyday practices and classroom learning. *Pragmatics and Cognition*, 18(1), 223-227.
- Levy, L. A. (2018). *7 reasons why digital literacy is important for teachers*. Retrieved from: <https://rossieronline.usc.edu/blog/teacher-digital-literacy/>
- Li, J., & Chun, C. K. (2012). Effects of learning strategies on student reading literacy performance. *The Reading Matrix*, 12(1), 30-38.
- Maloney, A. (2017). *The importance of digital literacy for educators*. Retrieved from: <https://echo360.com/the-importance-of-digital-literacy-for-educators>
- Martin, A. (2005). DigEuLit – A European framework for digital literacy: A progress report. *Journal of eLiteracy*, 2(2), 130-136.
- Meng, L., Munoz, M., Hess, K. K., & Liu, S. (2017). Effective teaching factors and student reading strategies as predictors of student achievement in PISA 2009: The case of China and the United States. *Educational Review*, 69(1), 1-17. doi: 10.1080/00131911.2016.1155537
- Mspascual. (2018). *Digital literacy practice test*. Retrieved from: <https://www.proprofs.com/quiz-school/story.php?title=NTC3OTU0>

- Ng, W. (2012). Can we teach digital natives digital literacy?. *Computer & Education*, 59(3), 1065-10
- Pardede, P. (2019). Print vs digital reading comprehension in EFL. *Journal of English Teaching*, 5(2), 77-90. Retrieved from: <http://dx.doi.org/10.33541/jet.v5i2.1059>
- Paris, S. G., Cross, D. R., & Lipson, M. Y. (1984). Informed strategies for learning: A program to improve children's reading awareness and comprehension. *Journal of Educational Psychology*, 76(6), 1239.
- Phillips, D. (2003). *Longman preparation course for the TOEFL test*. White Plains, NY: Pearson Education.
- Prior, D. D., Mazanov, J., Meacheam, D., Heaslip, G., & Hanson, J. (2016). Attitude, digital literacy and self efficacy: Flow on effects for online learning behavior. *Internet and Higher Education*, 29, 91-97.
- Radi, O. (2002). The impact of computer use on literacy in reading comprehension and vocabulary skills. *Computer in Education*, 8, 93-97.
- Rainie, L., & Duggan, M. (2012). E-book reading jumps; print book reading declines. *The Pew Research Center's Internet & American Life Project*, 27.
- Richards, J. C., & Schmidt, R. W. (2013). *Longman dictionary of language teaching and applied linguistics*. New York, NY: Routledge.
- Rochmawati, A., Wiyanto, W., & Ridlo, S. (2019). Analysis of 21st century skills of student on implementation project based learning and problem posing models in science learning. *Journal of Primary Education*, 9(1), 58-67.
- Rouse, M., Ferguson, K., Pratt, M. K. (2019). *The definition of ICT (Information and Communication Technology)*. Retrieved from: <https://searchio.techtargget.com/definition/ICT-information-and-communications-technology-or-technologies>
- Sangia, R. A. (2014). The process and purpose of reading. *INA-Rxiv. September*, 30.
- Sauqigobel. (2018). *Reading comprehension part 2*. Retrieved from: <https://sauqigobel.wordpress.com/2018/03/15/task-2reading-comprehension-part-2/>
- Sau, B. (2018). *Reading simulation test*. Retrieved from: https://www.academia.edu/41821669/READING_SIMULATION_TEST

- Shariman, T. P. N. T., Razak, N. A., & Noor, N. F. M. (2012). Digital literacy competence for academic need: An analysis of Malaysian students in three universities. *Journal Procedia-Social Behavioral Sciences*, 69, 1489-1496.
- Shin, S. H., Slater, C. L., & Backhoff, E. (2013). Principal perceptions and student achievement in reading in Korea, Mexico, and the United States: Educational leadership, school autonomy, and use of test results. *Educational Administration Quarterly*, 49, 489-527. doi: 10.1177/0013161X12458796
- Smith, S. (2019). *The purpose of reading*. Retrieved from: <https://www.eapfoundation.com/reading/skills/purpose/>
- Son, J.-B., Park, S.-S., & Park, M. (2017). Digital literacy of language learners in two different contexts. *JALT CALL Journal*, 13(2), 77-96.
- Susanto, E. P., Sutarsyah, C., & Sinaga, T. (2015). The correlation between students' reading interest and students' reading comprehension. *UNILA Journal of English Teaching*, 4(8), 2-12.
- Tadros, L. C. (2014). Definition and approaches measuring reading proficiency. *CEELO FAST FACT*, 5(2), 1-7.
- TOEFLIBTee. (2018). *TOEFL reading*. Retrieved from: <https://toeflibtee.com/category/toefl-reading-section/>
- Umbara, R., Vianty, M., & Inderawati, R. (2015). The correlation among reading attitude, the use of internet and reading comprehension. *The Journal of English Literacy Education: The Teaching and Learning of English as a Foreign Language*, 2(2), 77-88.
- Wallace, M., & Wray, A. (2016). *Critical reading and writing for postgraduates*. London, UK: Sage Publications.
- Walliman, N. (2011). *Your research project: Designing and planning your work*. Newbury Park, CA: Sage Publications.
- Wilda, F. (2013). The effectiveness of using summarization technique in teaching reading comprehension of the second year of MTsN Pucanglaban Tulungagung in academic year 2012/2013. *Thesis*. IAIN Tulungagung. Retrieved from: <http://repo.iain-tulungagung.ac.id/524/>
- Yuyun, I. (2012). A study of reading skills in an English proficiency test: A case study in the first year of university students. *The Ninth International Conference on English Studies (CONEST 9)*, 1, 33-35.

Yuyun, I., Meyling, M., Laksana, N., & Abenedgo, D. (2018). A study of English proficiency test among the first year university students. *Journal of Language Literature*, 18(1), 1-8.

Zahra, W., Inderawati, R., & Petrus, I. (2019). The use of ICT in authentic assessment of the students' productive skills. *English Review*, 8(1), 81-90. doi: 10.25134/erjee.v8i1.2110

Zook, J. C. (2019). *What are 21st century skills?*. Retrieved from: <https://www.aeseducation.com/career-readiness/what-are-21st-century-skills>

