

**THE INVESTIGATION OF TEACHERS' COMPETENCE IN DIGITAL  
LITERACY IN THE TEACHING OF ENGLISH AT ISLAMIC SENIOR  
HIGH SCHOOLS**

**THESIS**

Presented to  
State Islamic Institute of Kediri  
in Partial Fulfillment of the Requirements  
for the Degree of Magister in English Language Education



**Written by:**

**WARDAH AN NURIYAH**

**21506010**

**ENGLISH DEPARTMENT  
POSTGRADUATE  
STATE ISLAMIC INSTITUTE OF KEDIRI (IAIN KEDIRI)  
2023**

## **DECLARATION OF AUTHENTICITY**

Name : Wardah An Nuriyah  
Student's ID Number : 21506002  
Study Program : Department of English Language Education  
Title of Thesis : The Investigation of Teachers' Competence in Digital Literacy in the Teaching of English at Islamic Senior High School

Declare that:

1. In the result of my research there are no elements of plagiarism of research works or scientific works that have been carried out or made by anyone other than those that are quoted in this text and mentioned in citation sources and reference lists.
2. If in the future it turns out that the results of this study prove to contain elements of plagiarism and claims from other parties, I am willing to be processed according to the applicable laws and regulations.

Kediri, June 15, 2023

The Researcher

Wardah An Nuriyah

NIM 21506010

## **APPROVAL PAGE**

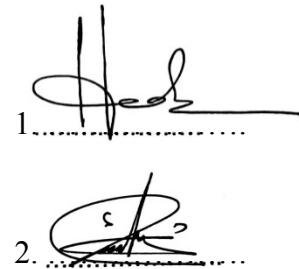
This is to clarify that this thesis has been approved by the thesis advisor for further approval by the board of examiners.

### **THE INVESTIGATION OF TEACHERS' COMPETENCE IN DIGITAL LITERACY IN THE TEACHING OF ENGLISH AT ISLAMIC SENIOR HIGH SCHOOLS**

**Wardah An Nuriyah  
21506010**

#### **Advisors:**

- 1. Dr. H. Fathor Rasyid, M.Pd.  
NIP 1969083112000031001**
  
- 2. Dr. Sri Wahyuni, M.Pd.  
NIP 198409092011012018**



The image shows two handwritten signatures. The first signature, labeled '1.', is a stylized 'H' followed by 'Fathor Rasyid'. The second signature, labeled '2.', is a stylized 'S' followed by 'Wahyuni'.

Kediri, June 15, 2023

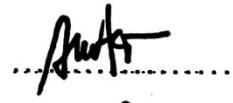
## RATIFICATION SHEET

This is to certify that this thesis entitled "**THE INVESTIGATION OF TEACHERS' COMPETENCE IN DIGITAL LITERACY IN THE TEACHING OF ENGLISH AT ISLAMIC SENIOR HIGH SCHOOLS**" has been examined and approved by the Board of Examiners as requirement for the degree of *Magister* in English Language Education.

Board Examiners:

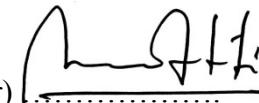
1. Dr. Umar Faruq, M.Fil.I  
NIP. 19680511200604100

(Chairman)



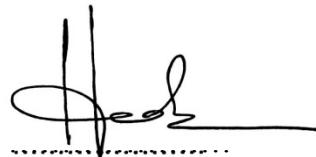
2. Nur Afifi, M.App.Ling, Ph.D  
NIP. 197707132003122003

(Main Examiner)



3. Dr. Fathor Rasyid, M.Pd.  
NIP. 19690831 2000031001

(Examiner)

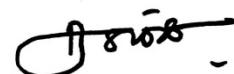


4. Dr. Sri Wahyuni, M.Pd.  
NIP. 198409092011012018

(Examiner)



Kediri, 24 July 2023  
Acknowledged by  
Director of Graduate Program



Prof. Dr. H. Moh. Asror Yusuf, M.A  
NIP. 197506132003121004

## **MOTTO**

**“Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence”**

**Hellen Keller**

## **DEDICATION**

First of all, I would like to say gratitude to Allah SWT, who always give His mercy and grace on me so I can complete my thesis.

Secondly, blessings and greetings are always be given to our Prophet Muhammad SAW who has guided us from darkness to light

I dedicate this thesis to;

- My beloved parents, Mr. Masduki Romasyi as my father, and Mrs. Eni Rusydiyah as my mother for all the love, support, strength, prayers and all the facilities that have been given to me. May Allah bless you with goodness.
- For my beloved brother, Medan Amrullah, who also gave me advice, support and prayers.
- For my two supervisors, Mr. Fathor Rasyid and Mrs. Sri Wahyuni, thank you for your time and dedication to guide me in completing my thesis.
- For to the precious people around me, Sofi Nuril F, Erin Arifah, Zuli Fatma, Ummu Hanik, and Yunifa Sivana, thank you for always giving me lots of support, encouragement, prayer, and motivation so that I can finish my thesis..
- And for all my postgraduate class friends, thank you for all the kindness and motivation you always give. And also thank you for your willingness and cooperation to work hard together in completing this thesis.

## ACKNOWLEDGEMENTS

*Bismillahirrohmanirrohim,*

Alhamdulillah and praise and thanks be to the presence of Allah SWT, because of His mercy and grace, I can complete this thesis entitled: The Investigation of Teachers' Competence in Digital Literacy in the Teaching of English at Islamic Senior High Schools.

This thesis was written to fulfill one of the requirements for obtaining a Master of Education (M.Pd) degree in the English language education department, Tarbiyah Faculty, IAIN Kediri. This thesis would not have been completed without the guidance, advice, prayers and support from many people involved, therefore I would like to express my deepest gratitude to:

1. Dr. Wahidul Anam, M.Ag. the rector of State Islamic Institute of Kediri.
2. Prof. Dr. Moh. Asror Yusuf, M.Ag., the director of Postgraduate of IAIN Kediri.
3. Dr. Toyyibah, SS., M.Pd., the chief of Postgraduate English Department IAIN Kediri.
4. My advisors, Mr. H. Fathor Rasyid, M.Pd. and Mrs. Dr. Sri Wahyuni, M.Pd., thanks for your time, guidance, suggestions for my thesis.
5. All my lecturers in Postgraduate of IAIN Kediri
6. All the Academic Office Staff and Library of IAIN Kediri who always help me to finish my thesis.
7. My parents, family, and friends who always provide support, help, pray, and motivation for me to complete my thesis.
8. All my friends of TBI Postgraduate who has helped me and give me support during finish this thesis.

May Allah bless them all. *Aamiin.*

Kediri, June 15, 2023

The researcher

Wardah An Nuriyah  
NIM 21506002

## ABSTRACT

Nuriyah, Wardah An. Students Registered Number. 21506010. 2023. *The Investigation of Teachers' Competence in Digital Literacy in the Teaching of English at Islamic Senior High Schools.* Thesis. English Education Department. Faculty of Tarbiyah and Teacher Training. State Islamic Institute (IAIN) of Kediri. The 1st Advisor: Dr. H. Fathor Rasyid, M.Pd and the 2nd Advisor: Dr. Sri Wahyuni, M.Pd.

**Keywords:** Technology, TELL, Digital Competence, Digital Literacy

Based on the development of the era, digital literacy competence is a crucial requirement in improving teaching and learning processes that integrate with technology. Teachers have a major role in applying digital learning to the education sector. But in reality, teachers tend to still have different levels of digital literacy competence because they are influenced by various things. The data of this study are related to an investigation regarding the level of teacher competency in digital literacy in teaching English in Islamic senior high schools. The objectives of this study are (1) To find out the digital literacy level of the English teachers at Islamic Senior High Schools, (2) To find out the differences between Public-School and Private-School English teachers' levels of digital literacy competence at the Islamic Senior High School level, (3) To find out the differences between Male and Female English teachers' levels of digital literacy competence of English teachers at the Islamic Senior High School level, and (4) To find out the differences between rural and urban area English teachers' levels of digital literacy competence of English teachers at the Islamic Senior High School level.

The research design in this research is descriptive qualitative. The subjects in this study were 20 Islamic high school level English teachers. The instrument used in this research is a questionnaire which is the sole and main instrument. The instrument used contains a combination of closed and open questions to get more complete and complex data.

The results of this study indicate that the majority of English teachers' digital literacy levels in Islamic high schools are intermediate. This shows that English teachers have achieved digital literacy competence in the ability to communicate, think critically and evaluate various digital information and content on the internet, and are able to collaborate well through spaces or digital technology facilities. In the follow-up analysis, in terms of differences in the origin of schools, namely public and private schools, there are no specific gaps, but public schools have a more even level of competency compared to private schools. Furthermore, in terms of gender differences, there are quite significant differences in competence where male teachers have a higher level of digital literacy competence than female teachers in the four existing indicators. Meanwhile, when viewed from the context of rural and urban schools, there is no specific digital literacy level gap. This indicates that teachers from rural and urban schools have commensurate levels of competence.

## ABSTRAK

Nuriyah, Wardah An. Nomor Induk Mahasiswa. 21506010. 2023. *Investigasi Kompetensi Literasi Digital Guru Pada Pengajaran Bahasa Inggris di Sekolah Menengah Atas Islam*. Tesis. Program Magister. Tadris Bahasa Inggris. Fakultas Tarbiyah dan Ilmu Keguruan. Institut Agama Islam Negeri (IAIN) Kediri. Pembimbing 1: Dr. H. Fator Rasyid, M.Pd dan Pembimbing 2: Dr. Sri Wahyuni, M.Pd.

**Kata Kunci:** Teknologi, TELL, Kompetensi Digital, Literasi Digital

Berdasarkan perkembangan era, kompetensi literasi digital menjadi kebutuhan yang krusial dalam meningkatkan proses belajar mengajar yang berintegrasi dengan teknologi. Guru mempunyai peran utama dalam mengaplikasikan pembelajaran digital pada sektor pendidikan. Namun pada kenyataannya, guru cenderung masih mempunyai tingkat kompetensi literasi digital yang tidak merata dan berbeda-beda karena dipengaruhi oleh berbagai hal. Data penelitian ini berkaitan dengan investigasi mengenai tingkat kompetensi guru dalam literasi digital pada pengajaran bahasa inggris di sekolah menengah atas islam. Objektif pada penelitian ini adalah (1) Untuk mengetahui tingkat literasi digital guru bahasa Inggris pada Sekolah Menengah Atas Islam, (2) Untuk mengetahui perbedaan kompetensi literasi digital antara guru bahsa Inggris Sekolah Negeri dan Swasta pada tingkat Sekolah Menengah Atas Islam, (3) Untuk mengetahui perbedaan kompetensi literasi digital antara guru Bahasa Inggris pria dan wanita pada tingkat Sekolah Menengah Atas Islam, dan (4) Untuk mengetahui perbedaan kompetensi literasi digital antara guru Bahasa Inggris sekolah pedesaan dan perkotaan pada level Sekolah Menengah Atas Islam.

Desain penelitian pada penelitian ini deskriptif kualitatif. Subjek pada penelitian ini adalah guru-guru bahasa Inggris tingkat sekolah menengah atas islam yang berjumlah 20 guru. Instrumen yang digunakan dalam penelitian ini adalah kuesioner yang menjadi instrument tunggal dan utama. Instrumen yang digunakan berisi kombinasi pertanyaan tertutup dan pertanyaan terbuka untuk mendapatkan data yang lebih lengkap dan kompleks.

Hasil penelitian ini menunjukkan bahwa mayoritas tingkat literasi digital guru bahasa Inggris di sekolah menengah atas islam adalah menengah (intermediate). Hal ini menunjukkan bahwa guru bahasa inggris telah mencapai kompetensi literasi digital pada kemampuan dalam berkomunikasi, berfikir kritis serta mengevaluasi berbagai informasi dan konten digital di internet, serta mampu berkolaborasi melalui ruang atau sarana teknologi digital dengan baik. Dalam analisis lanjutannya, ditinjau dari konteks perbedaan asal sekolah, yakni sekolah negeri dan swasta, tidak ada kesenjangan spesifik, namun sekolah negeri lebih mempunyai tingkat kompetensi yang merata dibandingkan sekolah swasta. Selanjutnya, ditinjau dari perbedaan gender, terdapat perbedaan kompetensi yang cukup signifikan dimana guru laki-laki mempunyai tingkat kompetensi literasi digital yang lebih tinggi dibandingkan dengan guru perempuan dalam empat indikator yang ada. Sedangkan jika ditinjau dari konteks sekolah pedesaan dan perkotaan, tidak ada kesenjangan tingkat literasi digital yang spesifik. Hal ini menandakan bahwa guru dari sekolah pedesaan dan perkotaan mempunyai tingkat kompetensi yang sepadan.

## TABLE OF CONTENTS

<b>TITLE .....</b>	<b>i</b>
<b>DECLARATION OF AUTHENTICITY .....</b>	<b>ii</b>
<b>APPROVAL PAGE .....</b>	<b>iii</b>
<b>RATIFICATION SHEET .....</b>	<b>iv</b>
<b>MOTTO .....</b>	<b>v</b>
<b>DEDICATION.....</b>	<b>vi</b>
<b>ACKNOWLEDGMENTS .....</b>	<b>vii</b>
<b>ABSTRACT .....</b>	<b>viii</b>
<b>TABLE OF CONTENTS.....</b>	<b>x</b>
<b>LIST OF TABLES .....</b>	<b>xii</b>
<b>LIST OF FIGURES .....</b>	<b>xiv</b>
<b>LIST OF APPENDICES .....</b>	<b>xvi</b>
<b>CHAPTER I INTRODUCTION</b>	
A. Research Background .....	1
B. Research Problems.....	5
C. Research Objectives.....	6
D. Research Significance.....	6
E. Research Scope and Limitation .....	7
F. Definition of Key term.....	8
<b>CHAPTER II LITERATURE REVIEW</b>	
A. Technology .....	10
1. Definition of Technology in Education .....	10
2. TELL (Technology-Enhanced Language Learning).....	12
3. Modern Technology Used in Education .....	14
4. The Role of Technology in Teaching English .....	15
B. Digital Competence .....	17
1. Concept of Digital Competence.....	18
2. Purposes of Digital Competence.....	19
C. Digital Literacy .....	20
1. Definition of Literacy .....	20
2. Definition of Digital literacy.....	21
3. Teachers' Digital Literacy .....	22
4. Digital Literacy in Teaching English.....	23
D. Previous Study .....	26
<b>CHAPTER III RESEARCH METHODOLOGY</b>	
A. Research Design .....	29
B. Research Subject.....	30
C. Data Collection Technique .....	32
D. Research Instrument .....	32
E. Data Processing Procedures.....	35
F. Tehnik of Data Analysis .....	38
<b>CHAPTER IV DATA PRESENTATION OF FINDINGS</b>	
A. An Overview of English Teacher Competence in Digital Literacy.....	43

B. Differences Between Public-School and Private-School English Teachers' Level of Digital Literacy Competence at Islamic Senior High School	99
C. Differences Between Male and Female English Teachers' Level of Digital Literacy Competence at Islamic Senior High School.....	104
D. Differences Between Rural and Urban English Teachers' Level of Digital Literacy at Islamic Senior High School.....	108
<b>CHAPTER V RESEARCH DISCUSSION</b>	
A. Teacher Digital Literacy Competency Levels in the Teaching of English at Islamic High School .....	113
B. The Differences Between Public-School and Private-School English Teachers' Level f Digital Literacy Competence at Islamic Senior High School .....	118
C. TheDifferences Between Male and Female English Teachers' Level of Digital Literacy at Islamic Senior High School Level.....	120
D. The Differences Between Rural and Urban Area English Teachers' Level of Digital Literacy at Islamic Senior High School.....	121
<b>CHAPTER VI CONCLUSION AND SUGGESTION</b>	
A. Conclusion .....	124
B. Suggestion .....	125
<b>REFFERENCE</b> .....	127
<b>APPENDICES</b> .....	133

## LIST OF TABLES

<b>Table 3.1</b>	List of Research Subjects .....	31
<b>Table 3.2</b>	Structure of questionnaire based on digital literacy Elements .....	33
<b>Table 3.3</b>	Blueprint of Questionnaire .....	34
<b>Table 3.4</b>	Alternative score answers.....	39
<b>Table 3.5</b>	Detail of Percentage Analysis .....	41
<b>Table 3.6</b>	The interpretation of teacher competence .....	41
<b>Table 3.7</b>	Interpretation of Digital Literacy Levels.....	41
<b>Table 4.1</b>	Percentage interval (%) and its interpretation .....	44
<b>Table 4.2</b>	Score Distribution of Teachers' Competence in Digital Literacy .....	45
<b>Table 4.3</b>	Categories of teacher competency levels in digital literacy .....	45
<b>Table 4.4</b>	The detail of competency aspects in indicator 1 .....	48
<b>Table 4.5</b>	Score Distribution of Indicator 1.....	48
<b>Table 4.6</b>	The detail of competency aspects in indicator 2 .....	57
<b>Table 4.7</b>	Score Distribution of Indicator 2.....	58
<b>Table 4.8</b>	The detail of competency aspects in indicator 3 .....	71
<b>Table 4.9</b>	Score Distribution of Indicator 3.....	72
<b>Table 4.10</b>	The detail of competency aspects in indicator 4 .....	84
<b>Table 4.11</b>	Score Distribution of Indicator 4.....	85
<b>Table 4.12</b>	Teacher specifications from state public high schools .....	100
<b>Table 4.13</b>	Teacher specifications from private high schools .....	101
<b>Table 4.14</b>	Percentage of digital literacy competence of public school .....	102
<b>Table 4.15</b>	Percentage of digital literacy competence of private school.....	102
<b>Table 4.16</b>	Group of male and female teachers.....	105
<b>Table 4.17</b>	Percentage of digital literacy competence of the male	

teacher .....	106
<b>Table 4.18</b> Percentage of digital literacy competence of the female teacher .....	106
<b>Table 4.19</b> Specifications of teachers in rural areas .....	109
<b>Table 4.20</b> Specifications of teachers in urban areas .....	109
<b>Table 4.21</b> Percentage of teacher digital literacy competencies in rural areas.....	110
<b>Table 4.22</b> Percentage of teacher digital literacy competencies in urban areas .....	111

## LIST OF FIGURES

<b>Figure 1.1</b> Elements of digital literacy .....	26
<b>Figure 4.1</b> Ability to turn on and off the computer .....	49
<b>Figure 4.2</b> Ability in using keyboard and its shortcuts .....	50
<b>Figure 4.3</b> Ability in managing files into folders on computer/laptop.....	50
<b>Figure 4.4</b> Ability in scanning the disk for viruses .....	51
<b>Figure 4.5</b> Ability in changing the brightness and contrast of the computer/laptop screen .....	52
<b>Figure 4.6</b> Ability in setting minimize and maximize the screen of the computer/laptop .....	52
<b>Figure 4.7</b> Ability in taking digital photos through computer/laptop .....	53
<b>Figure 4.8</b> Ability in turning on and off the Bluetooth on a computer/laptop.....	53
<b>Figure 4.9</b> Ability to enable and disable Wi-fi on computer/laptop.....	54
<b>Figure 4.10</b> Ability to connect a computer or laptop to a network of LAN computers in a certain area .....	54
<b>Figure 4.11</b> Ability to connect the audio equipment via the audio jack.....	55
<b>Figure 4.12</b> Ability to connect computer/laptop with projector media via VGA/HDMI .....	56
<b>Figure 4.13</b> Ability to use Microsoft Word.....	59
<b>Figure 4.14</b> Ability to use Microsoft Excel.....	60
<b>Figure 4.15</b> Ability to use Microsoft PowerPoint .....	61
<b>Figure 4.16</b> Internet skills .....	62
<b>Figure 4.17</b> Ability to get accurate data or information via the internet.....	64
<b>Figure 4.18</b> Ability to get a variety of digital learning media.....	66
<b>Figure 4.19</b> Ability to edit photos/images in supporting interesting media.....	68
<b>Figure 4.20</b> Ability to edit videos in supporting interesting media.....	70

<b>Figure 4.21</b> Ability to use social media for learning.....	73
<b>Figure 4.22</b> Ability to use online communication networks in learning .....	74
<b>Figure 4.23</b> Ability to select information on digital forums .....	76
<b>Figure 4.24</b> Ability to deliver ideas and information in digital forums .....	77
<b>Figure 4.25</b> Ability to respond critically to information in the digital space.....	79
<b>Figure 4.26</b> Ability to participate in digital forums to share information with teachers or other parties .....	80
<b>Figure 4.27</b> Ability to collaborate with other teachers in the digital space.....	82
<b>Figure 4.28</b> Ability to create digital learning media .....	86
<b>Figure 4.29</b> Ability to develop digital learning media .....	87
<b>Figure 4.30</b> Ability to think creatively and imaginatively .....	89
<b>Figure 4.31</b> Ability to create relevant digital-based learning media .....	90
<b>Figure 4.32</b> The benefits of digital-based learning media.....	93
<b>Figure 4.33</b> Ability to understand the safety aspects in the digital aspects .....	94
<b>Figure 4.34</b> Ability to ensure safety when creating with digital technology.....	95
<b>Figure 4.35</b> Ability to ensure safety when collaborating with technology.....	96
<b>Figure 4.36</b> Ability to create good and secure password in the digital aspects.....	97
<b>Figure 4.37</b> Ability to present digital information or content that is legal and safe .....	97

## LIST OF APPENDICES

<b>APPENDIX 1:</b> Questionnaire .....	133
<b>APPENDIX 2 :</b> Result of Questionnaires .....	141
<b>APPENDIX 3:</b> Data Calculation of Questionnaire Fullfilment of Teachers' Digital Literacy Competence .....	184
<b>APPENDIX 4:</b> Data Calculation of Digital Literacy Competence between Public School and Private-School Teachers .....	186
<b>APPENDIX 5:</b> Data Calculation of Digital Literacy Competence between Male and Female teachers .....	191
<b>APPENDIX 6:</b> Data Calculation of Digital Literacy Competence Between Teacher in Rural and Urban Area .....	195
<b>APPENDIX 7:</b> Expert Judgements of The Instrument .....	200
<b>APPENDIX 8:</b> Letter Related to the Research .....	202
<b>APPENDIX 9:</b> Bibliography.....	207