

Monograph Digitalization on

English Language Education:

Literacy and Competence

Dr. Miranti Eka Putri, S.Pd., M.Ed.



Monograph Digitalization on English Language Education: Literacy and Competence

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Monograph Digitalization on English Language Education: Literacy and Competence

Dr. Miranti Eka Putri, S.Pd., M.Ed.



MONOGRAPH DIGITALIZATION ON ENGLISH LANGUAGE EDUCATION: LITERACY AND COMPETENCE

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Desain Cover: Syaiful Anwar

Sumber: www.shutterstock.com

> Tata Letak: Titis Yuliyanti

Proofreader: Mira Muarifah

Ukuran: x, 44 hlm, Uk: 15.5x23 cm

> ISBN: 978-623-02-4878-8

Cetakan Pertama: Juli 2022

Hak Cipta 2022, Pada Penulis

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PENERBIT DEEPUBLISH (Grup Penerbitan CV BUDI UTAMA)

Anggota IKAPI (076/DIY/2012)

Jl.Rajawali, G. Elang 6, No 3, Drono, Sardonoharjo, Ngaglik, Sleman Jl.Kaliurang Km.9,3 - Yogyakarta 55581

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FOREWORD

Assalamu'alaikum, wr. wb

Our foremost and utmost gratitude to Allah Swt., for His abundant grace that allowed us, Deepublish Publisher to publish this book entitled Monograph Digitalization on English Language Education: Literacy and Competence.

As a publisher that-above other missions-prioritizes its role to educate and glorify mankind, as well as to utilize science and technology to its best, we do not only attend to the work of established writers, but we provide the room and facility for people who wish to express their creativity and innovation in writing and conveying ideas and values.

The Monograph Digitalization on English Language Education: Literacy and Competence is available in two versions, Indonesian and English.

Our warmest gratitude and appreciation to the author who has given us trust and contribution to the perfection of this book. Hopefully, this book is useful, and educative, and contributes well in glorifying mankind and the utilization of science and technology in the country.

Wassalamu'alaikum, wr. wb

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CHAPTER I DIGITAL LITERATURE: WHAT AND WHY

A. The Urgency of Digital Literacy

Nawacita's priority agenda on aspects of education and cultural development is at points five, six, eight, and nine in The National Medium Term Development Plan (RPJMN) year 2015–2019. There are six literacy skills that must be mastered by the Indonesian people to support Indonesia's country development, such as (1) language literacy, (2) numeracy literacy, (3) scientific literacy, (4) digital literacy, (5) financial literacy, and (6) cultural and social literacy of citizenship which has developed into the National Literacy Movement (GLN). It was initiated by the Ministry of Education and Culture and has been implemented in the family, school, and community scope.

The problem of people's interest in reading is at a serious level as evidenced in several surveys conducted, including:

- Human Development Index (2013) Indonesia is ranked 108 out of 187 countries;
- Central Connecticut State University (2016) Indonesia is ranked 60th out of 61 countries;
- Program for International Students Assessment (2016), Indonesia is ranked 64 out of 72 countries;
- The Indonesia National Assessment Program (INAP) states that the ability of elementary school students in mathematics competence is 77.13%, science competence is 73.61%, and reading competence is 46.83%.

It can be concluded that the level of interest in reading and literacy of the Indonesian people is at an alarming level and requires a significant solution.

The National Literacy Movement (GLN) must be applied to the family, school, and community environment. It has to be carried out, especially by the younger generation, to grow interest in reading. There are aspects that affect a person's interest in reading. Hurlock (2009) states that there are five components that affect a person's reading interest, such as awareness, attention, concentration, willingness, and pleasure.

The awareness of interest in reading is the introduction of an attractive object that has a force to make them feel happy and have a feeling of positive possession for an object (book). In the attention aspect, a person will be aware of and enjoy the object, causing direct or indirect attention. Furthermore, concentration is a form of full attention to an object and in this stage, the fun and attention will affect one's concentration when reading. The encouragement aspect will cause a will towards an object that causes interest. The last aspect is fun. The existing pleasure of reading will have an impact on repeated reading activities.

To increase the interest of reading in the academic community of higher education, there are several components that must be considered, that are awareness, attention, concentration, willingness, and pleasure. The research team will analyze digital literacy of English learning in universities so that it can provide awareness, attention, concentration, willingness, and pleasure, especially for the younger generation to be more interested in reading. With this matter, it is hoped that the level of reading awareness will be increased over time.

B. State of the Problem

The problem of English learning and teaching in higher education can be formulated as follows:

- student's digital literacy,
- student's digital competency,
- lecturer's digital literacy,
- lecturer's digital competency,

- the influence of the student's digital literacy and digital competence towards English learning and teaching, and
- the influence of the lecturer's digital literacy and digital competence towards English learning and teaching.

CHAPTER 2 REVIEWING THE DIGITAL LITERACY OF NATIONAL SCOPE

A. The National Literacy Movement

The National Literacy Movement has goals to develop and cultivate literacy in Indonesia throughout life to improve the quality of life in the family, school and community (Kemendikbud, 2017) with 3 (three) basic principles, such as sustainability, integration, and involving all stakeholders. This activity must be carried out on an ongoing basis and literacy programs should be a concern for all levels of Indonesian society. The implementation of this program can be integrated with government or non-government programs, while providing opportunities for all stakeholders, both individuals and institutions, so that they mutually reinforce other programs as well. In the meantime, this national literacy movement can support people's reading interest with components of awareness, concentration, will, and pleasure in the scope of literacy (Kemendikbud, 2017). The 7 literacy dimensions contained in the Indonesian national movement consist of reading and writing literacy, numeracy literacy, scientific literacy, digital literacy, financial literacy, and cultural literacy and citizenship with 3 domains of national literacy generation, namely the school literacy movement, the family literacy movement, and the community literacy movement (Kemendikbud, 2017). The implementation and stakeholders in this national literacy movement (Kemendikbud, 2017), are (1) the Ministry of Education and Culture; (2) other ministries or other institutions; (3) local government; (4) sub-district or village; (5) school principals; (6) education superintendent; (7) tutor teachers or non-formal education tutors; (8) school or community committee; (9)

educational staff; (10) literacy community and society; (11) universities; (12) business and industry (DUDI); (13) mass media.

B. Digital Literacy

Digital literacy is a digital technology that is effectively and critically navigated and evaluated. In other words, digital literacy is technology-based literacy. Digital literacy includes computer hardware and software, internet, mobile phones, websites and others in order to obtain information effectively. According to Newman (2009) and Ng (2012), the literacy model consists of three components in the form of techniques (knowledge of digital tools), cognitive (critical thinking), and social awareness. Technical context is the ability to possess the software and hardware knowledge or ICT literacy), while cognitive is the ability to evaluate and contextualize information or information literacy, and social awareness is the ability to understand oneself to collaborate, communicate according to context or audience.

C. Digital Competency

Digital competency is the ability of a person to use technologybased or digital literacy. There are five types of competencies in digital competence, which are information, communication, content-creation, electronic skills, safety, and problem solving.

- Information, is the ability to identify, locate, retrieve, store, organize and analyze digital information, by assessing its relevance and purpose.
- 2. Communication, is a form of digital environmental communication, which are sharing resources online, connecting with others, collaborating through digital tools, interacting and participating in communities and networks, and cross-cultural awareness.
- Content-creation, is the context of creating and editing new content (from word processing to images and videos), integrating and elaborating knowledge and content, generating

- creative expression, media output, and programming, and also dealing with intellectual property rights and licenses.
- 4. Safety, is a form of personal, data, and digital identity protection, the sense of security in action that is safe and sustainable.
- 5. Problem-solving, is a form of identifying digital needs and resources, making the right decisions on the most appropriate digital tools, goals and needs, solving conceptual problems through digital means, creatively using technology, solving technical problems, updating competencies and others.

CHAPTER 3

THE ALLURING ASPECTS OF THE BOOK

A. Material Deepening Style and Information Integration

The quantitative approach is used in this study with a crosssectional survey design research data because it was only collected for a certain time with the aim of describing the population condition and using a questionnaire as the main data collection tool.

Table 1. Rules of Material Deepening

| Research Objectives | Research Types | Research Method | Analysis Unit | Time Horizon |
|------------------------|-------------------|--------------------|------------------|-----------------|
| T-1 | Associative | Survey | Student-Lecturer | Cross-Sectional |
| T-2 | Associative | Survey | Student-Lecturer | Cross-Sectional |
| T-3 | Associative | Survey | Student-Lecturer | Cross-Sectional |
| T-4 | Associative | Survey | Student-Lecturer | Cross-Sectional |
| T-5 | Associative | Survey | Student | Cross-Sectional |
| T-6 | Associative | Survey | Lecturer | Cross-Sectional |

Description

T-1 = X1 = Student's Digital Literacy

T-2 = X2 = Student's Digital Competency

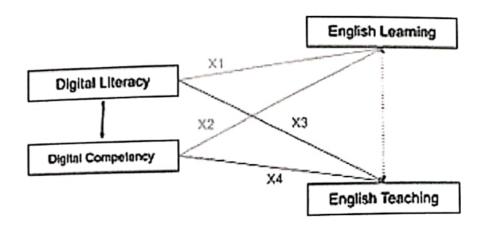
T-3 = X3 = Lecturer's Digital Literacy

T-4 = X4 = Lecturer's Digital Competency

T-5 = Y1 = English Learning

T-6 = Y2 = English Teaching

This research used independent and dependent variable as follows:



Picture 1. Variable Element

Independent Variable (X):

X1 = Student's Digital Literacy

X2 = Student's Digital Competency

X3 = Lecturer's Digital Literacy

X4 = Lecturer's Digital Competency

Dependent Variable (Y):

Y1 = Student's English Learning

Y2 = Lecturer's English Teaching

The sources of data for this research are the students in the academic year of 2018 (160 students) and 10 lecturers who teach courses in Semester 6, Academic Year of 2018/2019 at the English Education Study Program, Faculty of Teacher Training and Education, Islamic University of Riau. Simple random sampling techniques were used in this study based on Isaac and Michael's Table (see attachment) and sample survey (data collection was drawn from the population sample).

The instruments used in the survey are questionnaires and interviews. Questionnaires are used to determine the problems that exist in the field by using open and closed questionnaires followed by

interviews. The interview used is a conversation that takes place in a systematic and organized manner by the researcher with a number of respondents to obtain a number of related information and research problems. Structured interviews were conducted with a number of questions that had been arranged systematically.

Table 2. Material Deepening Subjects

| Number | Group | Class | Population | Sample |
|--------|----------|--------------|-------------|-------------|
| 1 | Student | 6A | 25 Students | |
| 2 | Student | 6B | 25 Students | |
| 3 | Student | 6C | 25 Students | |
| 4 | Student | 6D | 25 Students | 62 Students |
| 5 | Student | 6E | 25 Students | |
| 6 | Student | 6F | 25 Students | |
| 7 | Lecturer | 6th Semester | 11 Students | |

Processing of samples using the Slovin formula with a significance of 0.10, which:

$$N = N/(1 + Ne^2) = 161/(1 + 161 \times 0.10 \times 0.10) = 161/(1+1.61) = 161/2.61 = 61.68 = 62 students$$

Processing of samples using the Slovin formula with a significance of 0.10, which:

$$N = N/(1 + Ne^2) = 11/(1 + 11 \times 0.10 \times 0.10) = 11/(1+0.11) = 11/1.11 = 9.90 = 10 lecturers$$

Table 3. Material Deepening Medium

| No | Variabel | Instrumen | Keterangan |
|----------|--------------------|-------------------------------|------------|
| | Digital Literacy | Questionnaire & Interviews | Student |
| <u> </u> | | Questionnaire & Documentation | Lecturer |
| 2 | Digital Competency | Questionnaire & Interviews | Student |
| <u> </u> | | Questionnaire & Documentation | Lecturer |
| 3 | English Learning | IELTS | Student |
| 4 | English Teaching | Questionnaire | Lecturer |

Table 4. Material Deepening Medium of Digital Literacy

| Data Type | Instrument | Indicator | Sub-indicator | |
|---------------------------------|---------------------------------|---------------------|---|--|
| | | | Using learning technology | |
| | | | Using and adapting to new technology | |
| | | Technical | Formatting and publishing research and idea electronically | |
| | | _ | Solving basic technical problems | |
| 0 | Questionnaire and Interviews | | Critical thinking skills when searching, evaluating, and creating digital information | |
| Quantitative and Qualitative | | and Interviews | | Ability to use and analyze text-based, visual or audiobased information, understand the form, location format and methods of accessing information sources |
| | | Social Emotional | Structural social literacy by placing and producing socially | |
| | | | Using a digital environment for learning and communication | |

Table 5. Material Deepening Medium of Digital Competency

| Data Type | Instrument | Indicator | Sub-indicator |
|---------------------------------|-------------------------------|------------------|--|
| | | | Identifying |
| | | | Finding |
| | | Information | Retrieving |
| | | Information | Storing |
| | | | Arranging |
| | | | Analyzing |
| | | | Communicating through digital environment |
| | | | Sharing resources through online tools |
| | | | Connecting with other people |
| | Questionnaire & Interviews | Communication | Collaborating through digital tools |
| | | | Interacting |
| Qualitative and Quantitative | | | Participating in communities and networks, cross-cultural awareness |
| | | Content Creation | Creating and editing new content (from word processing to images and videos) |
| | | | Integrating and elaborating knowledge and content |
| | | | Producing creative expression, media output, and programming |
| | | | Dealing with and implementing intellectual property rights and licenses |
| | | Safety | Personal Protection |

| * | Instrument | Indicator | Sub-indicator |
|-----------|------------|-----------------|--|
| Data Type | 11131 | | Data Protection |
| | | | Digital Identity Protection |
| | | | Security Measures |
| | | | Safe and sustainable use |
| | | | Identifying digital requirements and resources |
| | | | Making the right decisions on the most appropriate digital tools |
| | | | Objectives and needs |
| | | Problem solving | Solving conceptual problems through digital means |
| | | | Creative in using technology |
| | | | Troubleshooting technical problems |
| | | | Updating competencies and others |

Table 6. Material Deepening Medium of Student's English Learning

| Data Type | Instrument | Indicator |
|-----------|----------------------------|--|
| | LICI TC Tact Coard Recuits | Listening, Reading, Writing, Speaking |

Table 7. Material Deepening Medium of Lecturer's English Teaching

| Data Type | Instrument | Indicator |
|-----------|---|-----------|
| | Lecturer's Scores (Source: UPM FKIP UIR) | Teaching |

B. Information Analyzing Process

This study used quantitative data (Cross-Sectional Survey). In the data collection technique, the researcher carried out several stages in the form of data collection, such as checking data (editing), coding data, data entry, data processing, data analysis, data interpretation, making conclusions and recommendations. Meanwhile, in the qualitative data, the researcher arranged an instrument in the form of a research interview to interview a group of samples and then waited for their response, then the researcher analyzed the data collected from the interviewee.

The quantitative data collection techniques using simple and multiple regressions, classical assumption test (normality test, heteroscedasticity test, multicollinearity test), validity and reliability test, correlation test, and hypothesis test design. The qualitative data collection techniques used interviews and documentation to support the specific results of this study, researchers will describe in detail.

CHAPTER 4 COMPLETE REVIEW OF DIGITALIZATION ON ENGLISH LANGUAGE EDUCATION

A. Systematic Course of Digitalization on English Language Education

The research data consists of four variables, which are: Student's Digital Literacy (X1), Student's Digital Competence (X2), Lecturer's Digital Literacy (X3), Lecturer's Digital Competence (X4), English Language Learning (Y1), and English Language Teaching (Y2). The data processing steps were processed using SPSS 24 with (1) a set of variables; (2) data input; (3) respondent mapping; (4) mapping the respondents' answers; (5) computing the variables, and (6) testing the quality of the data. The first to fourth data are for respondent's identity data by describing the mapping of respondents through frequency. The fifth to twelfth data are intended to accommodate respondents' data answers that symbolized by Q (Question) which consists of 36 statements for 4 variables, namely: Q1-Q8 for the Student's Digital Literacy variable (X1), Q9-Q36 for the Student's Digital Competence variable. (X2), Q37-Q44 for Lecturer's Digital Literacy variable (X3), Q45-Q72 for Lecturer's Digital Competency variable (X4), Q73 for English Language Learning (Y1), and Q74 for English Language Teaching (Y2).

Table 8. Student's Class

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | | 7 | 9.6 | 9.6 | 9.6 |
| | A | 23 | 31.5 | 31.5 | 41.1 |
| | В | 15 | 20.5 | 20.5 | 61.6 |
| | С | 5 | 6.8 | 6.8 | 68.5 |
| | D | 7 | 9.6 | 9.6 | 78.1 |
| | E | 11 | 15.1 | 15.1 | 93.2 |
| | F | 5 | 6.8 | 6.8 | 100.0 |
| | Total | 73 | 100.0 | 100.0 | |

Table 9. Student's Sex

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | L | 9 | 12.3 | 12.3 | 12.3 |
| | P | 64 | 87.7 | 87.7 | 100.0 |
| | Total | 73 | 100.0 | 100.0 | |

Table 10. Student's Work Unit

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | | 66 | 90.4 | 90.4 | 90.4 |
| | PBIng | 7 | 9.6 | 9.6 | 100.0 |
| | Total | 73 | 100.0 | 100.0 | |

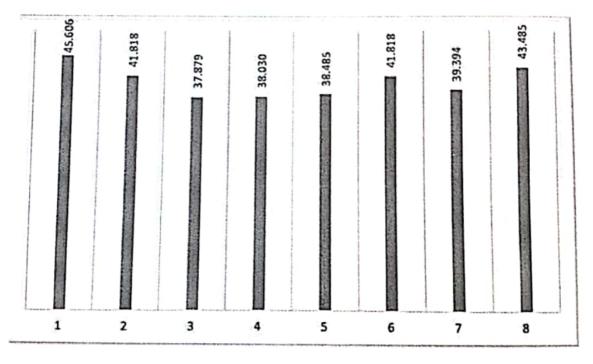
Research Question #1: How does the student's digital literacy affect the English Learning in Universities?

Table 11. Descriptive Statistics of The Student's Digital Literacy

| | N | Minimum | Maximum | Mean | Std. Deviation |
|--|----|---------|---------|--------|-------------------|
| Student 1's Digital Literacy | 66 | 3.00 | 5.00 | 4.5606 | 0.52999 |
| Student 2's Digital Literacy | 66 | 2.00 | 5.00 | 4.1818 | 0.67730 |
| Student 3's Digital Literacy | 66 | 2.00 | 5.00 | 3.7879 | 0.62055 |
| Student 4's Digital Literacy | 66 | 2.00 | 5.00 | 3.8030 | 0.70645 |
| Student 5's Digital Literacy | 66 | 2.00 | 5.00 | 3.8485 | 0.72838 |
| Student 6's Digital Literacy | 66 | 3.00 | 5.00 | 4.1818 | 0.57937 |
| Student 7's Digital Literacy | 66 | 3.00 | 5.00 | 3.9394 | 0.60457 |
| | 66 | 3.00 | 5.00 | 4.3485 | 0.61999 |
| Student 8's Digital Literacy Valid N (Listwise) | 66 | | | | |

| | N | Minimum | Maximum | Mean | Std. Deviation |
|------------------------------|----|---------|---------|--------|----------------|
| Literasi Digital Mahasiswa 1 | 66 | 3.00 | 5.00 | 4.5606 | .52999 |
| Literasi Digital Mahasiswa 2 | 66 | 2.00 | 5.00 | 4.1818 | .67730 |
| Literasi Digital Mahasiswa 3 | 66 | 2.00 | 5.00 | 3.7879 | |
| Literasi Digital Mahasiswa 4 | 66 | 2.00 | 5.00 | 3.8030 | |
| Literasi Digital Mahasiswa 5 | 66 | 2.00 | 5.00 | 3.8485 | |
| Literasi Digital Mahasiswa 6 | 66 | 3.00 | 5.00 | 4.1818 | |
| Literasi Digital Mahasiswa 7 | 66 | 3.00 | 5.00 | 3.9394 | |
| Literasi Digital Mahasiswa 8 | 66 | 3.00 | 5.00 | 4.3485 | |
| Valid N (listwise) | 66 | | | | 3.172 |

Table 11 shows that the Student's Digital Literacy variable has the highest order of scores on the first sub-indicator of the technique indicator (4, 56); then the sixth sub-indicator of the cognitive indicator (4, 18); and the eighth sub-indicator of the social emotional indicators (4, 34). So that it can be concluded that the influential indicators are (1) technique; (2) social-emotional; and (3) cognitive.



Picture 2. Student's Digital Literacy

Table 12. The Correlation Between Student's Digital Literacy and Scores

| | | Student's IELTS Score | Student's Digital Literacy (X1) |
|---------------------------------|------------------------|--------------------------|------------------------------------|
| Student's IELTS Score | Pearson Correlation | 1 | 0.091 |
| | Sig. (2-tailed) | | 0.469 |
| | N | 66 | 66 |
| Student's Digital Literacy (X1) | Pearson Correlation | 0.091 | 1 |
| | Sig. (2-tailed) | 0.469 | |
| | N | 66 | 66 |

| | | Nilai IELTS Mahasiswa | Literasi Digital Mahasiswa (X1) |
|---------------------------------|---------------------|--------------------------|------------------------------------|
| Nilai IELTS Mahasiswa | Pearson Correlation | 1 | .091 |
| | Sig. (2-tailed) | | .469 |
| | N | 66 | 66 |
| Literasi Digital Mahasiswa (X1) | Pearson Correlation | .091 | 1 |
| | Sig. (2-tailed) | .469 | |
| | N | 66 | 66 |

Table 12 shows: First, the relationship between the two variables has a Pearson coefficient of 0.091 close to 1 which means that it has a correlation between student digital literacy and student grades. Second, then the significance of the two variables is 0.469 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, 0.469, which means that it is correlated in the same direction. So that if students' digital literacy increases, the student's value also increases. With the conclusion of 0.469 > 0.05, then H0 is accepted, and Ha is rejected.

Research Question #2: How is the student's digital competence toward English learning in universities?

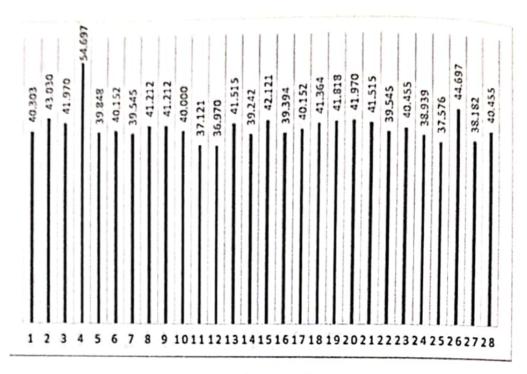
Table 13. Descriptive Statistics of the Student's Digital Competency

| I device X as a | and the same of | | 1 | | COLUMN TO SERVICE STATE OF THE PARTY OF THE |
|--|-----------------|---------|---------|--------|---|
| 100 | N | Minimum | Maximum | Mean | Std. Deviation |
| Student I's Digital Literacy | 66 | 1 00 | 5.00 | 4.0303 | 0.67868 |
| Student T's Digital Literacy | 66 | 3.00 | 5.00 | 4.3030 | 0.55386 |
| Student Fx Digital Literacy | 6.6 | 3.00 | 5.00 | 4.1970 | 0.63778 |
| Student 4's Digital Literacy | 66 | 2.00 | 54.00 | 5.4697 | 7.82927 |
| Student S'a Digital Literacy | 66 | 2.00 | 5.00 | 3.9848 | 0.61999 |
| Student 6's Digital Literacy | 66 | 3.00 | 5.00 | 4.0152 | 0.56819 |
| Student T's Digital Literacy | 66 | 2.00 | 5.00 | 3.9545 | 0.88460 |
| Student 8's Digital Literacy | 66 | 2.00 | 5.00 | 4.1212 | 0.75478 |
| Student 9's Digital Literacy | 66 | 2.00 | 5.00 | 4.1212 | 0.92012 |
| Student 10's Digital Literacy | 66 | 2.00 | 5.00 | 4.0000 | 0.85934 |
| Student 11's Digital Literacy | 66 | 1.00 | 5.00 | 3.7121 | 0.97294 |
| Student 12's Digital Literacy | 66 | 1.00 | 5.00 | 3.6970 | 0.78387 |
| Student 13's Digital Literacy | 66 | 3.00 | 5.00 | 4.1515 | 0.66199 |
| Student 14's Digital Literacy | 66 | 3.00 | 5.00 | 3.9242 | 0.61546 |
| Student 15's Digital Literacy | 66 | 3.00 | 5.00 | 4.2121 | 0.73412 |
| Student 16's Digital Literacy | 66 | 2.00 | 5.00 | 3.9394 | 0.78208 |
| Student 17's Digital Literacy | 66 | 1.00 | 5.00 | 4.0152 | 0.83191 |
| Student 18's Digital Literacy | 66 | 2.00 | 5.00 | 4.1364 | 0.80166 |
| tudent 19's Digital Literacy | 66 | 2.00 | 5.00 | 4.1818 | 0.82105 |
| tudent 20's Digital Literacy | 66 | 2.00 | 5.00 | 4.1970 | 0.68432 |
| tudent 21's Digital Literacy | 66 | 3.00 | 5.00 | 4.1515 | 0.70694 |
| tudent 22's Digital Literacy | 66 | 3.00 | 5.00 | 3.9545 | 0.59308 |
| tudent 23's Digital Literacy | 66 | 2.00 | 5.00 | 4.0455 | 0.75308 |
| tudent 24's Digital Literacy | 66 | 2.00 | 5.00 | 3.8939 | 0.68228 |
| tudent 25's Digital Literacy | 66 | 2.00 | 5.00 | 3.7576 | 0.70297 |
| tudent 26's Digital Literacy | 66 | 3.00 | 5.00 | 4.4697 | 0.63778 |
| udent 27's Digital Literacy | 66 | 2.00 | 5.00 | 3.8182 | 0.72130 |
| tudent 28's Digital Literacy | 66 | 2.00 | 5.00 | 4.0455 | 0.79289 |
| alid N (Listwise) | 66 | | | | |
| THE RESERVE THE PROPERTY OF TH | * | | | - | |

| | N | Minimum | Maximum | Mean | Std. Deviation |
|---------------------------------|----|---------|---------|--------|----------------|
| Kompetensi Digital Mahasiswa I | 66 | 1.00 | 5.00 | 4.0303 | .67868 |
| Kompetensi Digital Mahasiswa 2 | 66 | 3.00 | 5.00 | 4.3030 | .55386 |
| Kompetensi Digital Mahasiswa 3 | 66 | 3.00 | 5.00 | 4.1970 | .63778 |
| Kompetensi Digital Mahasiswa 4 | 66 | 2.00 | 54.00 | 5.4697 | 7.82937 |
| Kompetensi Digital Mahasiswa 5 | 66 | 2.00 | 5.00 | 3.9848 | .61999 |
| Kompetensi Digital Mahasiswa 6 | 66 | 3.00 | 5.00 | 4.0152 | .56819 |
| Kompetensi Digital Mahasiswa 7 | 66 | 2.00 | 5.00 | 3.9545 | .88460 |
| Kompetensi Digital Mahasiswa 8 | 66 | 2.00 | 5.00 | 4.1212 | .75478 |
| Kompetensi Digital Mahasiswa 9 | 66 | 2.00 | 5.00 | 4.1212 | .92012 |
| Kompetensi Digital Mahasiswa 10 | 66 | 2.00 | 5.00 | 4.0000 | .85934 |
| Kompetensi Digital Mahasiswa 11 | 66 | 1.00 | 5.00 | 3.7121 | .97294 |
| Kompetensi Digital Mahasiswa 12 | 66 | 1.00 | 5.00 | 3.6970 | .7838 |
| Kompetensi Digital Mahasiswa 13 | 66 | 3.00 | 5.00 | 4.1515 | .66199 |
| Kompetensi Digital Mahasiswa 14 | 66 | 3.00 | 5.00 | 3.9242 | .61540 |
| Kompetensi Digital Mahasiswa 15 | 66 | 3.00 | 5.00 | 4.2121 | .7341: |
| Kompetensi Digital Mahasiswa 16 | 66 | 2.00 | 5.00 | 3.9394 | .78208 |
| Kompetensi Digital Mahasiswa 17 | 66 | 1.00 | 5.00 | 4.0152 | .83191 |
| Kompetensi Digital Mahasiswa 18 | 66 | 2.00 | 5.00 | 4.1364 | .80166 |
| Kompetensi Digital Mahasiswa 19 | 66 | 2.00 | 5.00 | 4.1818 | .82105 |
| Kompetensi Digital Mahasiswa 20 | 66 | 2.00 | 5.00 | 4.1970 | .68432 |
| Kompetensi Digital Mahasiswa 21 | 66 | 3.00 | 5.00 | 4.1515 | .70694 |
| Kompetensi Digital Mahasiswa 22 | 66 | 3.00 | 5.00 | 3.9545 | .59308 |
| Kompetensi Digital Mahasiswa 23 | 66 | 2.00 | 5.00 | 4.0455 | .75308 |
| Kompetensi Digital Mahasiswa 24 | 66 | 2.00 | 5.00 | 3.8939 | .68228 |
| Kompetensi Digital Mahasiswa 25 | 66 | 2.00 | 5.00 | 3.7576 | .70297 |
| Kompetensi Digital Mahasiswa 26 | 66 | 3.00 | 5.00 | 4.4697 | .63778 |
| Kompetensi Digital Mahasiswa 27 | 66 | 2.00 | 5.00 | 3.8182 | .72130 |
| Kompetensi Digital Mahasiswa 28 | 60 | 2.00 | 5.00 | 4.0455 | .79289 |
| Valid N (listwise) | 66 | 5 | | | |

Table 13 shows that the Student's Digital Competence variable has the highest order of values on the fourth sub-indicator of the information indicator (5, 46); then the eighth and ninth sub-indicator of the communication indicators (4, 12); then the fifteenth sub-indicator of the content creation indicator (4, 21); then the twentieth sub-indicator of the safety indicator (4, 19); the last problem-solving indicator is on the twenty-sixth sub-indicator (4, 46). So that it can be

concluded that the influential indicators are (1) information; (2) problem solving; (3) content creation; (4) safety; and (5) communication.



Picture 3. Student's Digital Competency

Table 14. The Correlation Between Student's Digital Competency and Scores

| | | Student's Digital Competency (X2) | Student's IELTS Score |
|-----------------------|---------------------|--------------------------------------|--------------------------|
| Student's Digital | Pearson Correlation | 1 | 0.117 |
| Competency (X2) | Sig. (2-tailed) | | 0.348 |
| | N | 66 | 66 |
| Student's IELTS Score | Pearson Correlation | 0.117 | 1 |
| | Sig. (2-tailed) | 0.348 | |
| | N | 66 | 66 |

| | | Kompetensi Digital Mahasiswa (X2) | Nilai IELTS Mahasiswa |
|-----------------------------------|------------------------|--------------------------------------|--------------------------|
| Kompetensi Digital Mahasiswa (X2) | Pearson Correlation | 1 | .117 |
| | Sig. (2- tailed) | | .348 |
| | N | 66 | 66 |
| Nilai IELTS Mahasiswa | Pearson Correlation | .117 | 1 |
| | Sig. (2- tailed) | .348 | |
| | N | 66 | 6 |

Table 14 shows: First, the relationship between the two variables has a Pearson coefficient of 0.11 which is close to 1. It means that it has a correlation between a student's digital competence and scores. Second, the significance of the two variables is 0.348 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, 0.348, which means that it is correlated in the same direction. So that if the digital competence of students increases, then the value of students also increases. With the conclusion 0.348 > 0.05, then H0 is accepted and Ha is rejected.

Research Question #3: How does the lecturer's digital literacy affect the teaching of English in universities?

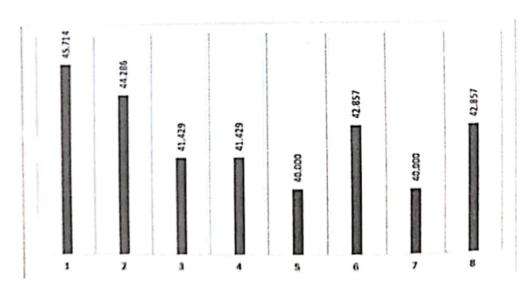
Table 15. Descriptive Statistics of Lecturer's Digital Literacy

| | N | Minimum | Maximum | Mean | Std. Deviation |
|-------------------------------|----|---------|---------|--------|-------------------|
| Lecturer 1's Digital Literacy | 66 | 3.00 | 5.00 | 4.5714 | 0.78680 |
| Lecturer 2's Digital Literacy | 66 | 4.00 | 5.00 | 4.4286 | 0.53452 |
| Lecturer 3's Digital Literacy | 66 | 3.00 | 5.00 | 4.1429 | 0.69007 |
| Lecturer 4's Digital Literacy | 66 | 3.00 | 5.00 | 4.1429 | 0.69007 |
| Lecturer 5's Digital Literacy | 66 | 3.00 | 5.00 | 4.0000 | 1.00000 |
| Lecturer 6's Digital Literacy | 66 | 3.00 | 5.00 | 4.2857 | 0.75593 |

| | T | | | | Std. |
|-------------------------------|----|---------|---------|--------|-----------|
| | N | Minimum | Maximum | Mean | Deviation |
| Lecturer 7's Digital Literacy | 66 | 3.00 | 5.00 | 4.0000 | 0.81650 |
| Lecturer 8's Digital Literacy | 66 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Valid N (Listwise) | 66 | | | | |

| | N | Minimum | Maximum | Mean | Std. Deviation |
|--|---|---------|---------|--------|----------------|
| Literasi Digital Dosen 1 | 7 | 3.00 | 5.00 | 4.5714 | .78680 |
| and the same of th | 7 | 4.00 | 5.00 | 4.4286 | .53452 |
| Literasi Digital Dosen 2 | 7 | 3.00 | 5.00 | 4.1429 | .69007 |
| Literasi Digital Dosen 3 | 7 | 3.00 | 5.00 | 4.1429 | .69007 |
| Literasi Digital Dosen 4 Literasi Digital Dosen 5 | 7 | 3.00 | 5.00 | 4.0000 | 1.00000 |
| Literasi Digital Dosen 6 | 7 | 3.00 | 5.00 | 4.2857 | .75593 |
| Literasi Digital Dosen 7 | 7 | 3.00 | 5.00 | 4.0000 | .81650 |
| Literasi Digital Dosen 8 | 7 | 3.00 | 5.00 | 4.2857 | .95119 |
| Valid N (listwise) | 7 | | | | |

Table 15 shows that the Lecturer's Digital Literacy variable has the highest order of values on the first sub-indicator of the technique indicator (4, 57); then the sixth and eighth sub-indicator of the cognitive indicators (4, 28). So that it can be concluded that the influential indicators are (1) technique; (2) cognitive and social emotional.



Picture 4. Lecturer's Digital Literacy

Table 16. Correlation Between Lecturer's Digital Literacy and Scores

| | | Lecturer's Digital Competency (X3) | Lecturer's Score |
|--------------------|---------------------|---------------------------------------|------------------|
| Lecturer's Digital | Pearson Correlation | 1 | 0.439 |
| Competency (X3) | Sig. (2-tailed) | | 0.324 |
| | N | 7 | 7 |
| Lecturer's Score | Pearson Correlation | 0.439 | 1 |
| | Sig. (2-tailed) | 0.324 | |
| | N | 7 | 7 |

| | | Literasi Digital Dosen (X3) | Nilai Dosen |
|-----------------------------|---------------------|------------------------------|-------------|
| Literasi Digital Dosen (X3) | Pearson Correlation | 1 | .439 |
| | Sig. (2-tailed) | | .324 |
| | N | 7 | 7 |
| Nilai Dosen | Pearson Correlation | .439 | |
| | Sig. (2-tailed) | .324 | |
| | N | 7 | 7 |

Table 4.9 shows: First, the relationship between the two variables has a Pearson coefficient of 0.439, close to 1, which means that it has a correlation between lecturers' digital literacy and scores. Second, then the significance of the two variables is 0.324 > 0.01, which means that the two variables are not significant. Third, the correlation value is positive, 0.324, which means that it is correlated in the same direction. So, if the lecturer's digital literacy increases, the lecturer's value also increases. With the conclusion 0.324 > 0.05, then H0 is accepted and Ha is rejected.

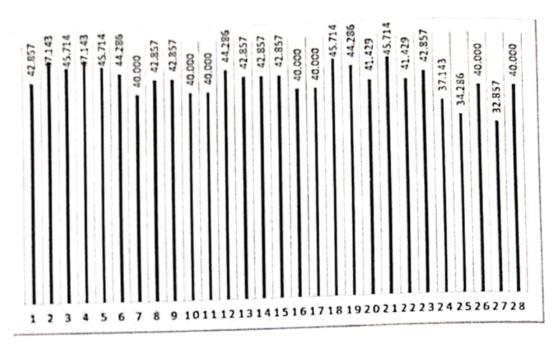
Research Question #4: How is the lecturer's digital competence towards English teaching in universities?

Table 17. Descriptive Statistic on Lecturer's Digital Competency

| | | | | | Std. |
|--------------------------------|---|---------|---------|--------|-----------|
| | N | Minimum | Maximum | Mean | Deviation |
| Lecturer 1's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.75593 |
| Lecturer 2's Digital Literacy | 7 | 3.00 | 5.00 | 4.7143 | 0.75593 |
| Lecturer 3's Digital Literacy | 7 | 3.00 | 5.00 | 4.5714 | 0.78680 |
| Lecturer 4's Digital Literacy | 7 | 3.00 | 54.00 | 4.7143 | 0.75593 |
| Lecturer 5's Digital Literacy | 7 | 3.00 | 5.00 | 4.5714 | 0.78680 |
| Lecturer 6's Digital Literacy | 7 | 3.00 | 5.00 | 4.4286 | 0.78680 |
| Lecturer 7's Digital Literacy | 7 | 2.00 | 5.00 | 4.0000 | 1.15470 |
| Lecturer 8's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Lecturer 9's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Lecturer 10's Digital Literacy | 7 | 2.00 | 5.00 | 4.0000 | 1.00000 |
| Lecturer 11's Digital Literacy | 7 | 3.00 | 5.00 | 4.0000 | 1.29099 |
| Lecturer 12's Digital Literacy | 7 | 3.00 | 5.00 | 4.4286 | 0.97590 |
| Lecturer 13's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Lecturer 14's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Lecturer 15's Digital Literacy | 7 | 2.00 | 5.00 | 4.2857 | 0.75593 |
| Lecturer 16's Digital Literacy | 7 | 2.00 | 5.00 | 4.0000 | 1.15470 |
| Lecturer 17's Digital Literacy | 7 | 3.00 | 5.00 | 4.0000 | 1.15470 |
| Lecturer 18's Digital Literacy | 7 | 3.00 | 5.00 | 4.5714 | 0.78680 |
| Lecturer 19's Digital Literacy | 7 | 3.00 | 5.00 | 4.4286 | 0.78680 |
| Lecturer 20's Digital Literacy | 7 | 3.00 | 5.00 | 4.1429 | 0.69007 |
| Lecturer 21's Digital Literacy | 7 | 3.00 | 5.00 | 4.5714 | 0.78680 |
| Lecturer 22's Digital Literacy | 7 | 3.00 | 5.00 | 4.1429 | 0.89974 |
| Lecturer 23's Digital Literacy | 7 | 3.00 | 5.00 | 4.2857 | 0.95119 |
| Lecturer 24's Digital Literacy | 7 | 3.00 | 5.00 | 3.7143 | 0.95119 |
| Lecturer 25's Digital Literacy | 7 | 3.00 | 5.00 | 3.4286 | 0.78680 |
| Lecturer 26's Digital Literacy | 7 | 2.00 | 5.00 | 4.0000 | 1.15470 |
| Lecturer 27's Digital Literacy | 7 | 2.00 | 5.00 | 3.2857 | 0.95119 |
| Lecturer 28's Digital Literacy | 7 | 3.00 | 5.00 | 4.0000 | 0.81650 |
| Valid N (Listwise) | 7 | | | | |

| | N | Minimum | Maximum | Mean | Std. Deviation |
|-----------------------------|-----|---------|---------|--------|----------------|
| Kompetensi Digital Dosen 1 | 7 | 3.00 | 5.00 | 4.2857 | .75593 |
| Kompetensi Digital Dosen 2 | 7 | 3.00 | 5.00 | 4.7143 | .75593 |
| Kompetensi Digital Dosen 3 | 7 | 3.00 | 5.00 | 4.5714 | .78680 |
| Kompetensi Digital Dosen 4 | 7 | 3.00 | 5.00 | 4.7143 | .75593 |
| Kompetensi Digital Dosen 5 | 7 | 3.00 | 5.00 | 4.5714 | .78680 |
| Kompetensi Digital Dosen 6 | 7 | 3.00 | 5.00 | 4.4286 | .78680 |
| Kompetensi Digital Dosen 7 | 7 | 2.00 | 5.00 | 4.0000 | 1.15470 |
| Kompetensi Digital Dosen 8 | 7 | 3.00 | 5.00 | 4.2857 | .95119 |
| Kompetensi Digital Dosen 9 | 7 | 3.00 | 5.00 | 4.2857 | .95119 |
| Kompetensi Digital Dosen 10 | 7 | 3.00 | 5.00 | 4.0000 | |
| Kompetensi Digital Dosen 11 | 7 | 2.00 | 5.00 | 4.0000 | |
| Kompetensi Digital Dosen 12 | 7 | 3.00 | 5.00 | 4.4286 | .97590 |
| Kompetensi Digital Dosen 13 | - | 3.00 | 5.00 | 4.2857 | .95119 |
| Kompetensi Digital Dosen 14 | | 3.00 | | 4.2857 | |
| Kompetensi Digital Dosen 15 | , | 3.00 | 5.00 | 4.2857 | .75593 |
| Kompetensi Digital Dosen 16 | | 7 2.00 | 5.00 | 4.0000 | 1.15470 |
| Kompetensi Digital Dosen 17 | | 7 2.00 | 5.00 | 4.0000 | 1.15470 |
| Kompetensi Digital Dosen 18 | | 3.00 | 5.00 | 4.5714 | .78680 |
| Kompetensi Digital Dosen 19 | | 7 3.00 | 5.00 | 4.4286 | .78680 |
| Kompetensi Digital Dosen 20 | | 7 3.00 | 5.00 | 4.1429 | .6900 |
| Kompetensi Digital Dosen 21 | | 7 3.00 | 5.00 | 4.5714 | .78680 |
| Kompetensi Digital Dosen 22 | | 7 3.00 | 5.00 | 4.1429 | .8997 |
| Kompetensi Digital Dosen 23 | | 7 3.00 | 5.00 | 4.2857 | .9511 |
| Kompetensi Digital Dosen 24 | , | 7 3.00 | 5.00 | 3.7143 | .9511 |
| Kompetensi Digital Dosen 25 | | 7 3.00 | 5.00 | 3.4286 | .7868 |
| Kompetensi Digital Dosen 26 | i i | 7 2.00 | 5.00 | 4.0000 | 1.1547 |
| Kompetensi Digital Dosen 27 | | 7 2.00 | 5.00 | 3.2857 | .9511 |
| Kompetensi Digital Dosen 28 | | 7 3.00 | 5.00 | 4.0000 | |
| Valid N (listwise) | | 7 | | | |

Table 17 shows that the Lecturer Digital Competence variable has the highest order of values in the second sub-indicator of the information indicator (4, 71); then the twelfth sub-indicator of the communication indicator (4, 42); then the thirteenth, fourteenth, fifteenth (4, 28) sub-indicator of the content creation indicators; then the eighteenth and twenty-first sub-indicator of the safety indicators (4, 57); and the problem-solving indicator is on the twenty-third sub-indicator (4, 28). So that it can be concluded that the influential indicators are (1) information; (2) safety; (3) communication; (4) content creation and problem solving.



Picture 5. Lecturer's Digital Competence

Table 18. Correlation Between Lecturer's Digital Competence and Scores

| | | Lecturer's Digital Competency (X4) | Lecturer's Score |
|----------------------|---------------------|---------------------------------------|---------------------|
| Lecturer's Digital | Pearson Correlation | 1 | 0.187 |
| Competency (X4) | Sig. (2-tailed) | | 0.688 |
| | N | 7 | 7 |
| Lecturer's Score | Pearson Correlation | 0.187 | 1 |
| December 2 2 2 2 2 2 | Sig. (2-tailed) | 0.688 | |
| | N | 7 | 7 |

| | | Kompetensi Digital Dosen (X4) | Nilai Dosen |
|-------------------------------|---------------------|----------------------------------|-------------|
| Kompetensi Digital Dosen (X4) | Pearson Correlation | 1, | .187 |
| | Sig. (2-tailed) | | .688 |
| | N | 7 | 7 |
| Nilai Dosen | Pearson Correlation | .187 | 1 |
| | Sig. (2-tailed) | .688 | |
| | И | 7 | 7 |

Table 18 shows: First, the relationship between the two variables has a Pearson coefficient of 0.18, close to 1, which means that it has a correlation between lecturer's digital competence and lecturer's scores. Second, then the significance of the two variables is 0.688 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, namely 0.688, which means that it is correlated in the same direction. So, if the lecturer's digital competence increases, the lecturer's value also increases. With the conclusion 0.688 > 0.05, then H0 is accepted and Ha is rejected.

Research Question #5: How does the student's digital literacy and digital competence affect English learning in universities?

Table 19. Descriptive Statistics

| | Mean | Std. Deviation | N |
|-----------------------------------|--------|----------------|----|
| Student's IELTS Score (Y1) | 3.8030 | 0.75066 | 66 |
| Student's Digital Literacy (X1) | 4.0814 | 0.39437 | 66 |
| Student's Digital Competency (X2) | 4.0893 | 0.51015 | 66 |

| | Mean | Std. Deviation | N |
|-----------------------------------|--------|----------------|----|
| Nilai IELTS Mahasiswa (Y1) | 3.8030 | .75066 | 66 |
| Literasi Digital Mahasiswa (X1) | 4.0814 | .39437 | 66 |
| Kompetensi Digital Mahasiswa (X2) | 4.0893 | .51015 | 66 |

Table 19 presents the data Variable X1 with Mean of 4.081; SD of 0.394; and N of 66. While the variable X2 with Mean of 4.089; SD of 0.510; and N of 66. Furthermore, the Y1 variable with Mean of 3.803; SD of 0.750; and N of 66.

Table 20. Descriptive Statistics

| | | Student's IELTS Score (Y1) | Student's Digital Literacy (X1) | Student's Digital Competency (X2) |
|------------------------|-------------------------------|----------------------------------|---------------------------------------|---|
| Pearson Correlation | Student's IELTS Score (Y1) | 1.000 | 0.091 | 0.117 |

| | | Student's IELTS Score (Y1) | Student's Digital Literacy (X1) | Student's Digital Competency (X2) |
|-----------------|--------------------------------------|----------------------------------|---------------------------------------|---|
| | Student's Digital Literacy (X1) | 0.091 | 1.000 | 0.375 |
| | Student's Digital Competency (X2) | 0.117 | 0.375 | 1.000 |
| Sig. (2-tailed) | Student's IELTS Score (Y1) | | 0.234 | 0.174 |
| | Student's Digital Literacy (X1) | 0.234 | | 0.001 |
| | Student's Digital Competency (X2) | 0.174 | 0.001 | |
| N | Student's IELTS Score (Y1) | 66 | 66 | 66 |
| | Student's Digital Literacy (X1) | 66 | 66 | 66 |
| | Student's Digital Competency (X2) | 66 | 66 | 66 |

| | | Nilai IELTS Mahasiswa | Literasi Digital Mahasiswa | Kompetensi Digital |
|----------------|-----------------------------------|--------------------------|-------------------------------|-----------------------|
| | | (Y1) | (X1) | Mahasiswa (X2) |
| Pearson | Nilai IELTS Mahasiswa (Y1) | 1.000 | .091 | .117 |
| Correlation | Literasi Digital Mahasiswa (X1) | .091 | 1.000 | .375 |
| Correlation | Kompetensi Digital Mahasiswa (X2) | .117 | .375 | 1.000 |
| Sig (1-tailed) | Nilai IELTS Mahasiswa (Y1) | | .234 | .174 |
| Sig. (1-umeu) | Literasi Digital Mahasiswa (X1) | .234 | | .001 |
| 5- | Kompetensi Digital Mahasiswa (X2) | .174 | .001 | |
| N | Nılai IELTS Mahasiswa (Y1) | 66 | 66 | 66 |
| •, | Literasi Digital Mahasiswa (X1) | 66 | 66 | 66 |
| | Kompetensi Digital Mahasiswa (X2) | 66 | 66 | 66 |

Table 20 presents the correlation of the matrix data for Student's Digital Literacy Variables (X1) with Student's IELTS Scores (Y1) and it obtained r = 0.091 with probability of 0.234 > 0.05, which means H0 is accepted and there is no significant relationship/correlation between Student's Digital Literacy (X1) with Student's IELTS Score (Y1). Student Digital Competence Variable (X2) with Student's IELTS Score (Y1) are obtained r = 0.117 with probability of 0.174 > 0.05 which means H0 is accepted and there is no significant

relationship/correlation between Student's Digital Competence (X2) and Student's IELTS Score (Y1).

Table 21. Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | | |
|---|--------|----------|-------------------|----------------------------|--|--|
| 1 | 0.128a | 0.016 | 0.015 | 0.75624 | | |
| a. Predictors: (Constant), Student's Digital Competency (X2), Student's Digital Literacy (X1) | | | | | | |
| b. Dependent Variable: Student's IELTS Score | | | | | | |

| Model | R | 1 | R Square | Adjusted R Square | Std. Error of the Estimate | | |
|-------------|---|---|---------------|-------------------|----------------------------|--|--|
| 1 | .12 | 8 | .016 | 015 | .75624 | | |
| a. Predicto | a. Predictors: (Constant), Kompetensi Digital Mahasiswa (X2), Literasi Digital Mahasiswa (X1) | | | | | | |
| | | | Nilai IELTS M | | | | |

Table 21 explains the correlation or relationship value (R) between the score of the Student's Digital Literacy Variable (X1) and the score of the Student's Digital Competence Variable (X2) on the Student's IELTS Score Variable (Y1) is 0.128. The coefficient of determination (R2) is 0.016, which means the effect of the independent variable (Student's Digital Literacy and Student's Digital Competence) on the dependent variable (Student's IELTS Score) is 12.8%.

Table 22. ANOVAa

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|--|-------------------|---------------------|---------|-----------------------|-----------------|--------|
| 1 | Regression | 0.597 | 2 | 0.298 | 0.522 | 0.596b |
| | Residual | 36.030 | 63 | 0.572 | | |
| | Total | 36.627 | 65 | | | |
| a. Dependent Variable: Student's IELTS Score | | | | | | |
| b. Predic | tors: (Constant), | Student's Digital C | ompeter | ncy (X2), Student's I | Digital Literac | y (X1) |

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|------|------|
| 1 | Regression | .597 | 2 | .298 | .522 | .596 |
| • | Residual | 36.030 | 63 | .572 | | |
| | Total | 36.627 | 65 | | | |

b. Predictors: (Constant), Kompetensi Digital Mahasiswa (X2), Literasi Digital Mahasiswa (X1)

Table 22 explains whether there is a significant effect on Student's Digital Literacy (X1) and Student's Digital Competence (X2) variables on the Student's IELTS Score (Y1) variable, which is Fcount = 0.522 with a significant level or probability of 0.596 > 0.05, so the regression can be used to predict the IELTS score.

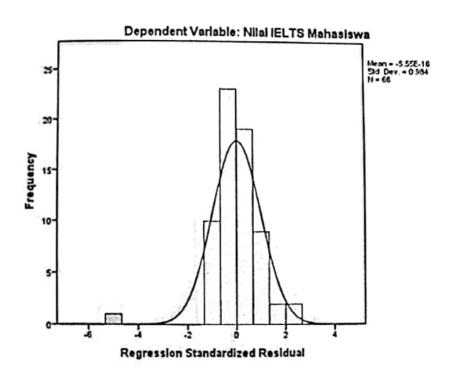
Table 23. Coefficients^a

| | Model | Unstandardized Coefficients | Standardized Coefficients | | | |
|----------|--------------------------------------|--------------------------------|------------------------------|-------|-------|-------|
| | | В | Std. Error | Beta | t | Sig. |
| 1 | Constant | 2.798 | 1.061 | | 2.637 | 0.011 |
| | Student's Digital Literacy (X1) | 0.104 | 0.257 | 0.054 | 0.403 | 0.688 |
| | Student's Digital Competency (X2) | 0.143 | 0.198 | 0.097 | 0.719 | 0.475 |
| a. Deper | dent Variable: Studer | nt's IELTS Score | | | | |

| | | Unstandardized Coefficients | | Standardized Coefficients | | Sig. |
|-------|-----------------------------------|--------------------------------|-----------------|------------------------------|-------|------|
| Model | | В | Std. Error Beta | | t | |
| 1 | (Constant) | 2.798 | 1.061 | | 2.637 | .011 |
| | Literasi Digital Mahasiswa (X1) | .104 | .257 | .054 | .403 | .688 |
| | Kompetensi Digital Mahasiswa (X2) | .143 | .198 | .097 | .719 | .475 |

a. Dependent Variable: Nilai IELTS Mahasiswa

Table 23 explains that Constanta (a) is 2.798. Student's Digital Literacy Score (X1) is 0.104 and Student's Digital Competency score (X2) is 0.143. So the constant is 2.798 with the X1 regression coefficient of 0.104 and the X2 regression coefficient of 0.143. Furthermore, it was concluded that the Student's Digital Literacy Score (X1) calculated value = 0.403 with the probability of 0.688 > 0.05, meaning that there was no significant effect. For the Student's Digital Competence variable (X2), the calculated value is 0.719 with the probability of 0.475 > 0.05, which means that there is no significant effect.



Picture 6. The Student's IELTS Scores

Research Question #6: How does the lecturer's digital literacy and digital competence affect English learning in universities?

Table 24. Descriptive Statistics

| | Mean | Std. Deviation | N |
|------------------------------------|---------|----------------|---|
| Lecturer's Score | 96.6300 | 1.09162 | 7 |
| Lecturer's Digital Literacy (X3) | 4.2321 | 0.63504 | 7 |
| Lecturer's Digital Competency (X4) | 4.2041 | 0.62611 | 7 |

| | Mean | Std. Deviation | N |
|-------------------------------|---------|----------------|---|
| Nilai Dosen | 96.6300 | 1.09162 | 7 |
| Literasi Digital Dosen (X3) | 4.2321 | .63504 | 7 |
| Kompetensi Digital Dosen (X4) | 4.2041 | .63611 | 7 |

Table 24 presents the data for Variable X3 with Mean of 4.232; SD of 0.635; and N of 7. While the variable X2 has Mean of 4.204; SD of 0.636; and N of 7. Furthermore, Variable Y2 has Mean of 96,630; SD of 1,091; and N of 7.

Table 25. Correlation of Lecturer's Digital Literacy (X3) and Digital Competence (X4) to Lecturer's Scores (Y2)

| | | Student's IELTS Score (Y1) | Student's Digital Literacy (X1) | Student's Digital Competency (X2) |
|-------------|---------------------------------------|----------------------------------|---------------------------------------|---|
| Pearson | Lecturer's Score | 1.000 | 0.439 | 0.187 |
| Correlation | Lecturer's Digital Literacy (X3) | 0.439 | 1.000 | 0.904 |
| | Lecturer's Digital Competency (X4) | 0.187 | 0.904 | 1.000 |
| Sig. (2- | Lecturer's Score | | 0.162 | 0.344 |
| tailed) | Lecturer's Digital Literacy (X3) | 0.162 | | 0.003 |
| | Lecturer's Digital Competency (X4) | 0.344 | 0.003 | |
| N | Lecturer's Score | 7 | 7 | 7 |
| | Lecturer's Digital Literacy (X3) | 7 | 7 | 7 |
| | Lecturer's Digital Competency (X4) | 7 | 7 | 7 |

| | | Nilai Dosen | Literasi Digital Dosen (X3) | Kompetensi Digital Dosen (X4) |
|----------------|-------------------------------|-------------|--------------------------------|----------------------------------|
| Pearson | Nilai Dosen | 1.000 | .439 | .187 |
| Correlation | Literasi Digital Dosen (X3) | .439 | 1.000 | .904 |
| | Kompetensi Digital Dosen (X4) | .187 | .904 | 1.000 |
| Sig (1-tailed) | Nilai Dosen | | .162 | .344 |
| | Literasi Digital Dosen (X3) | .162 | | .003 |
| | Kompetensi Digital Dosen (X4) | .344 | .003 | |
| N | Nilai Dosen | 7 | 7 | 7 |
| | Literasi Digital Dosen (X3) | 7 | 7 | 7 |
| | Kompetensi Digital Dosen (X4) | 7 | 7 | 7 |

Table 25 presents the correlation matrix data for Lecturer's Digital Literacy Variable (X3) with Lecturer's Scores (Y2) which obtained r = 0.439 with probability of 0.162 > 0.05 which means H0 is accepted and there is no significant correlation/correlation between Lecturer's Digital Literacy (X3) with Lecturer's Score (Y2). Lecturer's Digital Competence Variable (X4) with Lecturer's Value (Y2) which obtained r = 0.187 with probability of 0.344 > 0.05 which means H0 is accepted and there is no significant relationship/correlation between Lecturer's Digital Competence (X4) and Lecturer's Score (Y2)

Table 26. Model Summaryb

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | | | | |
|---|--------|----------|-------------------|----------------------------|--|--|--|--|
| 1 | 0.659a | | 0.131 | 1,00506 | | | | |
| a. Predictors: (Constant), Lecturer's Digital Literacy (X3), Lecturer's Digital Competency (X4) | | | | | | | | |
| b. Dependent Variable: Lecturer's Score | | | | | | | | |

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | | | | |
|--|-------|----------|----------------------|-------------------------------|--|--|--|--|
| 1 | .659ª | .434 | .151 | 1.00597 | | | | |
| a. Predictors: (Constant), Kompetensi Digital Dosen (X4), X3 b. Dependent Variable: Nilai Dosen | | | | | | | | |

Table 26 explains the value of the correlation value or relationship (R) between the score of the Digital Literacy Variable of Lecturers (X3) and the score of the Digital Competence Variable of Lecturers (X4) towards the Lecturer's Value Variable (Y2) is 0.659. The coefficient of determination (R2) is 0.434, which means the influence of the independent variables (Lecturer Digital Literacy and Lecturer Digital Competence) on the dependent variable (Lecturer Value) is 43%.

Table 27. ANOVAa

| Model | | Sum of Squares | df | Mean Square | F | Sig. | | |
|---|------------|-------------------|----|-------------|-------|--------|--|--|
| 1 | Regression | 3.102 | 2 | 1.551 | 1.533 | 0.321b | | |
| | Residual | 4.048 | 4 | 1.012 | | | | |
| | Total | 7.150 | 6 | | | | | |
| a. Dependent Variable: Lecturer's Score | | | | | | | | |
| b. Predictors: (Constant), Lecturer's Digital Competency (X4), (X3) | | | | | | | | |

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------|
| 1 | Regression | 3.102 | 2 | 1.551 | 1,533 | .3216 |
| | Residual | 4.048 | 4 | 1.012 | | |
| | Total | 7.150 | 6 | | | |

a. Dependent Variable: Nilai Dosen

b. Predictors: (Constant), Kompetensi Digital Dosen (X4), X3

Table 27 explains whether there is a significant effect on the Lecturer's Digital Literacy (X3) and Digital Competence (X4) on the Lecturer's Score variable (Y2), which is Fcount = 1.533 with a significant level or probability of 0.321 > 0.05, so regression can be used to predict the score of lecturers.

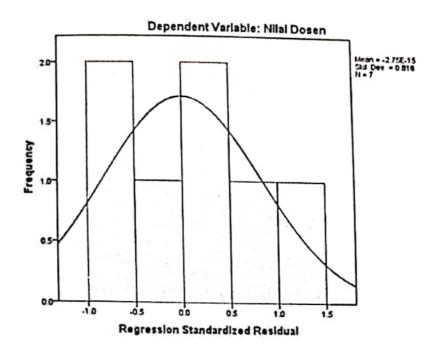
Table 28. Coefficientsa

| | Model | Unstandardized Coefficients | Standardized Coefficients | | | | |
|----------|---|--------------------------------|------------------------------|--------|--------|-------|--|
| | | В | Std. Error | Beta | t | Sig. | |
| 1 | Constant | 94.169 | 2.820 | | 33.396 | 0.000 | |
| | Lecturer's Digital Literacy (X3) | 2.538 | 1.512 | 1.476 | 1.679 | 0.168 | |
| | Lecturer's Digital Competency (X4) | -1.969 | 1.509 | -1.148 | -1.305 | 0.262 | |
| a. Deper | . Dependent Variable: Lecturer's Score | | | | | | |

| | | Unstandardized Coefficients | | | | |
|-------|-------------------------------|--------------------------------|------------|--------|--------|------|
| Model | | В | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 94.169 | 2.820 | | 33.396 | .000 |
| | Literasi Digital Dosen (X3) | 2.538 | 1.512 | 1.476 | 1.679 | .168 |
| | Kompetensi Digital Dosen (X4) | -1.969 | 1.509 | -1.148 | -1.305 | .262 |

a. Dependent Variable: Nilai Dosen

Table 28 describes the Constanta (a) is 94,169. The Lecturer's Digital Literacy Score (X3) is 2.538 and the Lecturer's Digital Competency score (X4) is -1.969. So, the constant is 94,169 with a regression coefficient X3 of 2,538 and a regression coefficient of -1,969 for X4. Furthermore, it was concluded that the Lecturer's Digital Literacy Score (X3) calculated value = 1.679 with the probability of 0.168 > 0.05, meaning that there was no significant effect. For the Lecturer's Digital Competence variable (X4), the calculated value is -1.305 with the probability of 0.262 > 0.05, which means that there is no significant effect.



Picture 7. Lecturer's Score

B. Comprehensive Analysis of Digitalization on English Language Education

Research Questions #1 and #3: Lecturer and Student's Digital Literacy on Student's Learning Score and Lecturer's Teaching Score

Table 29. Recapitulation of Lecturer's and Student's Digital Literacy Indicators and Sub-indicators

| Digital Litarage | Stud | ent | Lecturer | | |
|--------------------------------|--------------------|-------------------|--------------------|-------------------|--|
| Digital Literacy Indicators | Indicator Order | Sub- Indicator | Indicator Order | Sub- Indicator | |
| Technique | 1 | 1 | 1 | 1 | |
| Cognitive | 3 | 6 | 2 | 6 | |
| Social Emotional | 2 | 8 | 2 | 8 | |

| Indikator Literasi | Mahasiswa | | Dosen | |
|--------------------|------------------|---------------|------------------|---------------|
| Digital | Urutan Indikator | Sub-Indikator | Urutan Indikator | Sub-Indikator |
| Teknik | 1 | 1 | 1 | 1 |
| Kognitif | 3 | 6 | 2 | 6 |
| Sosial Emosional | 2 | 8 | 2 | 8 |

Table 29 "Research Question #1: How does the student's digital literacy affect the English Learning in Universities?" and "Research Question #3: How does the lecturer's digital literacy affect the teaching of English in universities?" were found that Student's Digital Literacy (X1) on Student's Score (Y1) and Lecturer's Digital Literacy (X3) on Lecturer's Score (Y2) are (1) the technical indicators and the first sub-indicator were very influential, such as using technology for learning: (2) the cognitive indicators and the sixth sub-indicator, such as the ability to use and analyze text-based, visual or audio-based information, understand the form, location format and method of accessing information sources; and (3) the social emotional indicators and the eighth sub-indicator, such as using a digital environment for learning and communication. So that the technical factor in the context of using technology for learning becomes the dominant reason for the students.

Research Question #2 and #4: How is the student's and lecturer's digital competence toward student's English learning and lecturer's English teaching in universities?

Table 30. Recapitulation of Lecturers and Student's Digital Competency Indicators and Sub-Indicators

| Digital Competency | Stud | lent | Lecturer | |
|--------------------|--------------------|-------------------|--------------------|-------------------|
| Indicators | Indicator Order | Sub- Indicator | Indicator Order | Sub- Indicator |
| Information | 1 | 1 | 1 | 2 |
| Communication | 5 | 8 and 9 | 3 | 12 |
| Content Creation | 3 | 15 | 4 | 13,14,15 |
| Safety | 4 | 20 | 2 | 18,21 |
| Problem Solving | 2 | 24 | 4 | 23 |

| Indikator | Mahasiswa | | Dosen | |
|--------------------|------------------|---------------|------------------|---------------|
| Kompetensi Digital | Urutan Indikator | Sub-Indikator | Urutan Indikator | Sub-Indikator |
| Informasi | 1 | 4 | 1 | 2 |
| Komunikasi | 5 | 8 dan 9 | 1 | 12 |
| Pembuatan Konten | 3 | 15 | | 13,14,15 |
| Keamanan | 4 | 20 | 1 2 | 18, 21 |
| Pemecahan Masalah | 2 | 24 | 4 | 23 |

Table 30 Research Question #2: How is the student's digital competence toward English learning in universities? and Research Question #4: How is the lecturer's digital competence towards English teaching in universities? So that the Student's Digital Competence (X2) against Student's Score (Y1) and Lecturer's Digital Competence (X4) against Lecturer's Scores (Y2) are obtained as follows.

Student Digital Competence: (1) Information indicator with the fourth sub-indicator very influential, which is storing information; (2) problem solving indicator with the twenty-fourth sub-indicator, which is goals and needs; (3) content creation indicator with the fifteenth sub-indicator, which is producing creative expressions, media output, and programming; (4) safety indicator with the twentieth sub-indicator, which is security measures; (5) communication indicators with the eighth and ninth sub-indicators, which is sharing resources through online tools and connecting with others.

Meanwhile the Lecturer's Digital Competence of (1) Information indicator with the second sub-indicator very influential, namely finding information; (2) safety indicator with eighteenth sub-indicator, which is data protection; and twenty-first which is safe and sustainable use; (3) communication indicator with the twelfth subindicator, which is participating in communities and networks, and cross-cultural awareness; (4) content creation indicator with the thirteenth sub-indicator, which is creating and editing new content (from word processing to images and videos); fourteenth, which is integrating and describing knowledge and content; and fifteenth, which is producing creative expressions, media output, and programming; (4) problem solving indicator with the twenty-third sub-indicator, which is making the right decisions on the most appropriate digital tools. So that the information factor in the context of storing information for students and finding information for lecturers are the dominant factor in this context.

Research Questions #5 and #6: Student's Digital Literacy and Digital Competence on Student Learning Score and Lecturer's Digital Literacy and Digital Competence on Lecturer Teaching Score.

Table 31. Recapitulation of The Student and Lecturer Variables

| Variable | Correlation Percentage |
|---|---------------------------|
| Student's Digital Literacy and Digital Competency towards Student's Score | 12,8% |
| Lecturer's Digital Literacy and Digital Competency towards Lecturer's Score | 43% |
| Other Variable which has not been found from the student (Digital Literacy and Competency) | 87,2% |
| Other Variable which has not been found from the lecturer (Digital Literacy and Competency) | 57% |

| Variabel Literasi Digital Mahasiswa dan Kompetensi Digital Mahasiswa terhadap Nilai Mahasiswa Literasi Digital Dosen dan Kompetensi Digital Mahasiswa terhadap Nilai Mahasiswa | Persentase Korelasi |
|--|---------------------|
| | 12, 8% |
| The state of the s | 43% |
| Variabel lain yang belum terdeteksi dari dosen (Literasi dan Kompetensi Digital) | 87,2 % |
| (States our Kompetensi Digital) | 57% |

Table 31 shows that the percentage of correlation between student's digital literacy and digital competence on student's score is 12.8% and there are still other variables that have not been found and affect it (87.2% of other variables have not been found). Furthermore, the correlation between students' digital literacy and digital competence towards the lecturers is 43% and there are still other variables that have not been found and affect it (57% of other variables have not been found).

CHAPTER 5 CORRELATION AND DIGITAL LITERATURE CAPACITY

A. The Correlation of Digital Literacy

The correlation between the student's digital literacy on student's score is: First, the relationship between the two variables has a Pearson coefficient of 0.091 close to 1 which means that there is a correlation between student digital literacy and student grades. Second, the significance of the two variables is 0.469 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, and has a score of 0.469 which means that it is correlated in the same direction. So, if students' digital literacy increases, the student's value also increases. With the conclusion 0.469 > 0.05, then H0 is accepted and Ha is rejected.

The correlation between the student's digital competence on student's score is: First, the relationship between the two variables has a Pearson coefficient of 0.11 close to 1 which means there is a correlation between student's digital competence and student's score. Second, the significance of the two variables is 0.348 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, that has a score of 0.348, which means that there is a unidirectional correlation. So that if the digital competence of students increases, then the value of students also increases. With the conclusion 0.348 > 0.05, then H0 is accepted and Ha is rejected.

The correlation between the lecturer's digital competence on lecturer's score is: First, the relationship between the two variables has a Pearson coefficient of 0.439, close to 1, which means it has a correlation between lecturer's digital literacy and lecturer's grades. Second, then the significance of the two variables is 0.324 > 0.01,

which means that both variables are not significant. Third, the correlation value is positive, which is 0.324, which means that there is a unidirectional correlation. So, if the lecturer's digital literacy increases, the lecturer's value also increases with the conclusion 0.324 > 0.05, then H0 is accepted, Ha is rejected.

The correlation between the lecturer's digital competence to lecturer's score is: First, the relationship between the two variables has a Pearson coefficient of 0.18 approaching 1 which means that it has a correlation between lecturer's digital competence and lecturer's score. Second, the significance of the two variables is 0.688 > 0.01, which means that both variables are not significant. Third, the correlation value is positive, which has a score of 0.688, which means that it is correlated in the same direction. So, if the lecturer's digital competence increases, the lecturer's value also increases. With the conclusion 0.688 > 0.05, then H0 is accepted and Ha is rejected.

The Student's Digital Literacy and Student's Digital Competence towards Student's Score is the correlation value or relationship (R) between the score of the Student's Digital Literacy Variable (X1) and the score of the Student's Digital Competence Variable (X2) on the Student's IELTS Score Variable (Y1) is 0.128. The coefficient of determination (R2) is 0.016, which means the effect of the independent variable (Student's Digital Literacy and Student's Digital Competence) on the dependent variable (Student IELTS Score) is 12.8%.

The Lecturer's Digital Literacy and Lecturer's Digital Competence to Lecturer's Score is the correlation value or relationship (R) between the score of the Lecturer's Digital Literacy of Variable (X3) and the score of the Lecturer's Digital Competence Variable (X4) to the Lecturer's Score Variable (Y2) is 0.659. The coefficient of determination (R2) is 0.434, which means the influence of the independent variables (Lecturer's Digital Literacy and Lecturer's Digital Competence) on the dependent variable (Lecturer Value) is 43%.

Student and Lecturer's Digital Literacy Digital Literacy towards Student and Lecturer's Score are Student Digital Literacy (X1) towards Student Scores (Y1) and Lecturer Digital Literacy (X3) toward Lecturer Scores (Y2). It is found that (1) the technical indicator with the first sub-indicator are very influential, which is using technology for learning; (2) the cognitive indicator with the sixth sub-indicator, which is the ability to use and analyze text-based, visual or audio-based information, understand the form, location format and method of accessing information sources; and (3) the social emotional indicator with the eighth sub-indicator, which is using a digital environment for learning and communication. So that the technical factor in the context of using technology for learning becomes the dominant reason for students.

Student and Lecturer's Digital Competence toward Student and Lecturers' Score are Student Digital Competence (X2) against Student Values (Y1) and Lecturer Digital Competence (X4) against Lecturer Scores (Y2) obtained as follows:

Student Digital Competence (1) the information indicator with the fourth sub-indicator very influential, which is storing information; (2) the problem solving indicator with the twenty-fourth subindicator, which is goals and needs; (3) the content creation indicator with the fifteenth sub-indicator, which is producing creative expressions, media output, and programming; (4) the safety indicator with the twentieth sub-indicator, which is safety measures; (5) the communication indicators with the eighth and ninth sub-indicators, which sharing resources through online tools and connecting with others. Furthermore, the Lecturer's Digital Competence is (1) the information indicator with the second very influential sub-indicator, which is finding information; (2) the safety indicator with eighteenth sub-indicator, which is data protection; and twenty-first which is safe and sustainable use; (3) the communication indicators with the twelfth sub-indicator, which is participating in communities and networks, cross-cultural awareness; (4) the content creation indicator with the thirteenth sub-indicator, which is creating and editing new content (from word processing to images and videos); fourteenth, which is integrating and describing knowledge and content; and fifteenth, which is producing creative expressions, media output, and programming; (4) the problem solving indicator with the twenty-third programming, C. J. and T. S. Market of the right decisions on the most sub-indicator, which is making the right decisions on the most appropriate digital tools. So that the information factor in the context of storing information for students and finding information for lecturers is the dominant factor in this context.

The correlation percentage of student's digital literacy and digital competence to student's scores is 12.8% and there are still other variables that have not been found and affect this (87.2% of other variables have not been found). Furthermore, the correlation between students' digital literacy and digital competence towards lecturers is 43% and there are still other variables that have not been found and affect this (57% of other variables have not been found).

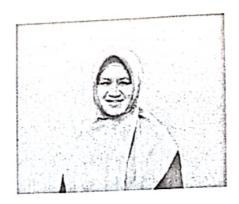
Digital Literacy Capacity

Digital literacy and digital competence are variables that В. correlate with student and lecturer scores but do not have a large significant value, so that there are variables that have not been found by researchers and have a significant influence. Furthermore, students and lecturers already have an excellent digital literacy and digital competence but this is not a determining factor in getting good scores on student scores (IELTS) and lecturer scores (lecturer index). Digitalization is very necessary but cannot replace the direct learning and teaching process because being a teacher/lecturer is just a transfer of knowledge, there will be a time when technology is smarter and knows more things than teachers/lecturers. But, if the teacher or lecturer transfers adab (how to behave well), piety and sincerity then the teacher/lecturer will always be needed because technology does not have all of that (KH. Dimyati Rois).

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Miranti Eka Putri is an Associate Professor of English Education and Deputy Dean for Academic Affairs at the Faculty of Teacher Training and Education, Islamic University of Riau.

She started teaching at the Islamic University of Riau in 2007 and actively writes since she was in junior high school until now with several achievements and dozens of writings.

As the eldest of 3 siblings, she likes to observe his surroundings. Her concern to the surrounding environment, becomes the reason for her writing and reading habit to become productive in writing books.

Monograph Digitalization **English Language Education:**

Literacy and Competence



Miranti Eka Putri is an Associate Professor of English Education and Deputy Dean for Academic Affairs at the Faculty of Teacher Training and Education, Universitas Islam Riau. She started teaching at the Universitas Islam Riau in 2007 and actively writes since she was in junior high school until now with several achievements and dozens of

writings. As the eldest of 3 siblings, she likes to observe her surroundings. Her concern to the surrounding environment becomes the reason for her writing and reading habit to become productive in writing books.

This book is an academic study with the concept of digitalization by presenting literacy and competence. This problem comes from the real environment in the world of education. This book explains that students and lecturers have digital skills in the context of digital literacy. In addition, it also conveys that there are several factors that strengthen the statement of digitalization is very necessary but it cannot replace the courtesy, piety, and sincerity of a teacher or lecturer in the world of education.

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