# TECHNOLOGY INTEGRATION IN A BILINGUAL TEACHING AND LEARNING OF AN INTERNATIONAL SCHOOL: IMPLEMENTATION AND TEACHERS' PERCEPTION AT ProEd GLOBAL SCHOOL BALI

**THESIS**

**by**
**NI KETUT YUNI SUMAHARANI**
**NIM: 2129081058**

ENGLISH LANGUAGE EDUCATION
POSTGRADUATE PROGRAM
GANESHA UNIVERSITY OF EDUCATION
(2023)

# TECHNOLOGY INTEGRATION IN A BILINGUAL TEACHING AND LEARNING OF AN INTERNATIONAL SCHOOL: IMPLEMENTATION AND TEACHERS' PERCEPTION AT ProEd GLOBAL SCHOOL BALI

**THESIS**

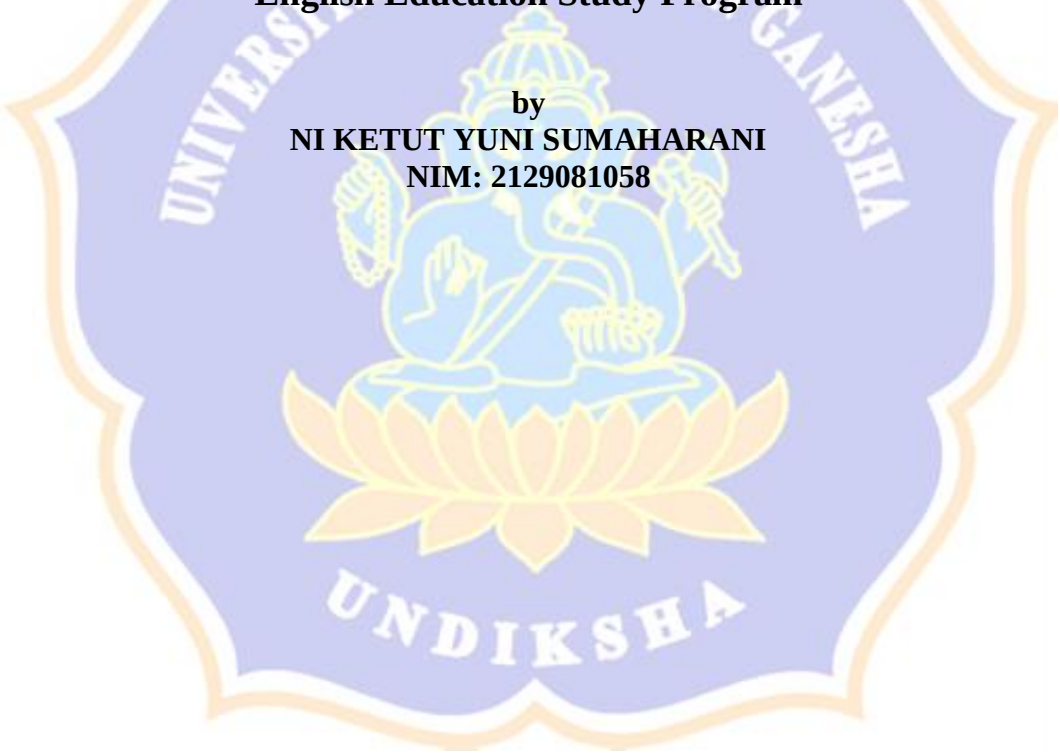
**by**
**NI KETUT YUNI SUMAHARANI**
**NIM: 2129081058**

ENGLISH LANGUAGE EDUCATION
POSTGRADUATE PROGRAM
GANESHA UNIVERSITY OF EDUCATION
(2023)

# TECHNOLOGY INTEGRATION IN A BILINGUAL TEACHING AND LEARNING OF AN INTERNATIONAL SCHOOL: IMPLEMENTATION AND TEACHERS' PERCEPTION AT ProEd GLOBAL SCHOOL BALI

**THESIS**
**Presented to**
**Ganesha University of Education**
**in Partial Fulfillment of the Requirements**
**for Master Degree in Education**
**English Education Study Program**

**by**
**NI KETUT YUNI SUMAHARANI**
**NIM: 2129081058**




ENGLISH LANGUAGE EDUCATION
POSTGRADUATE PROGRAM
GANESHA UNIVERSITY OF EDUCATION
(2023)

This thesis by Ni Ketut Yuni Sumaharani, has been revised and approved for Thesis Examinations

Singaraja, 15 Agustus 2023

Supervisor I,

Prof. Dra. Luh Putu Artini, M.A., Ph.D.
NIP 19640714 198810 2 001

Supervisor II,

Prof. Dr. Ni Nyoman Padmadewi, M.A.

NIP 19620202 198803 2 001

Master Thesis in Education: Language Education Study Program
Approved on: August 15, 2023

by Board of Examiners

..... ....., Chairman (Dr. Putu Suarcaya, S.Pd., M.Sc.)

NIP 19731003 200012 1 001

....., Member (Prof. Dr. Ni Made Ratminingsih, M.A.)

NIP 19660908 199102 2 002

..... ....., Member (Prof. Dra. Luh Putu Artini, M.A., Ph.D.)

NIP 19640714 198810 2 001

....., Member (Prof. Dr. Ni Nyoman Padmadewi, M.A.)

NIP 19620202 198803 2 001

....., Member (Dr. Ni Putu Era Marsakawati, M.Pd.)

NIP 198303142008122002

Acknowledged by
Director of Post-Graduate Program
Ganesha University of Education,

Prof. Dr. I Nyoman Jampel, M.Pd.
NIP 195910101986031003

## STATEMENT LETTER

I hereby honestly state that this Post Graduate Thesis in Education that is written as a partial requirement for the degree of Master in Education is my own work. All the information contained in this thesis which is derived from the work of others had been given an award by citing the name of the source authors correctly according to the academic norms, rules, and ethics.

If it is discovered in the future that a portion or the whole thesis is not my original work or that there is a case of plagiarism, I willingly accept the consequence of my academic title withdrawal and other sanctions as postulated by Indonesian National Law.

Denpasar, August 2023

Statement by

Ni Ketut Yuni Sumaharani

## ACKNOWLEDGEMENT

The completion of this post-graduate thesis will only be possible with the support of others. Because of this, I would like to address my gratitude. First of all, to God the Almighty, who guided and directed my path up to this point and made all things possible. My deep appreciation should go to

1. My principal supervisor Prof. Dra. Luh Putu Artini, M.A., Ph.D., and my second supervisor Prof. Dr. Ni Nyoman Padmadewi, M.A., whose patience, expertise, encouragement, and gentle guidance have kept me focused on the task at hand. I could not thank them enough for their dedication, consistency, and commitment.

2. The Director of the Post Graduate Study program at the Ganesha University of Education for his support, motivation, and encouragement so that I could keep going and finalize this thesis.

3. The Principal of ProEd Global School, Llana Reece for her legal permission and encouragement to conduct this study in ProEd Global School.

4. The teachers of ProEd Global School, for her legal permission, information, and support to conduct this study in her classes.

5. All of the Lecturers in Postgraduate English Language Education Undiksha for the support, uncountable guidance, and invaluable knowledge to the writer during campus life.

6. The Writer's Family for the support, encouragement, and motivation to accomplish this thesis.

7. The Writer's Favorite Persons, for the support and love during the ups and downs in accomplishing this thesis.

My special appreciation should also go to a long list of friends, who can not possibly be mentioned one by one. Their friendship, supports, motivation, and encouragement have been invaluable and helped support me through the end of this academic journey.

Denpasar, 15 Agustus 2023

Ni Ketut Yuni Sumaharani

## TABLE OF CONTENTS


STATEMENT LETTER ..... v
ACKNOWLEDGEMENT ..... vi
ABSTRACT ..... viii
TABLE OF CONTENTS ..... x
LIST OF TABLES ..... xii
LIST OF FIGURE ..... xii
CHAPTER I INTRODUCTION ..... 1
1.1 Research Background ..... 1
1.2 Problem Identification ..... 5
1.3 Research Limitation ..... 5
1.4 Research Questions ..... 6
1.5 Research Objectives ..... 6
1.6 Research Significance ..... 6
CHAPTER II REVIEW LITERATURE ..... 1
2.1 Theoretical Review ..... 1
2.1.1 Bilingual and Bilingual Education ..... 1
2.1.2 Young Learners and Technology in Learning ..... 3
2.1.3 Language Acquisition ..... 5
2.1.4 Strategies to Promote Children Become Bilingual ..... 7
2.1.5 Perception ..... 9
2.1.6 Technology, Its Exposure, and Children's Interaction ..... 10
2.2 Empirical Review ..... 15
CHAPTER III RESEARCH METHODS ..... 22
3.1 Research Design ..... 22
3.2 Research Setting ..... 24
3.3 Research Subject ..... 24
3.4 Procedures of Data Collection ..... 26
3.5 Research Instruments ..... 29
3.5.1 Observation Checklist ..... 29
3.5.2 Questionnaire ..... 30
3.5.3 Interview Guide ..... 31
3.6 Instrument Validity and Reliability ..... 33

3.6.1 Validity .....33
3.6.2 Reliability.....35
3.6.3 Triangulation.....35
3.7 Data Analysis Method.....36
3.7.1 Qualitative Analysis.....36
3.7.2 Quantitative Analysis.....38
3.8 Research Matrix .....40
CHAPTER IV FINDING AND DISCUSSION .....42
4.1 Findings.....42
4.1.1 Technology Integration in The Teaching and Learning Process in a Bilingual Setting .....42
4.1.2 Assessment Conducted by the Teachers in a Bilingual Setting.....52
4.1.3 Teachers' Perception of Technology Integration in a Bilingual Setting 55
4.2 Discussion .....66
CHAPTER V CONCLUSION.....72
5.1 Summary .....72
5.2 Conclusion.....74
5.3 Suggestion .....75
References.....76
Appendices.....77
Curriculum Vitae .....134

## LIST OF TABLES

Table 3.1 Teachers' Profiles .....27
Table 3.2 Schedule of The Classroom Observation.....27
Table 3.3 Instrument Checklist (*adapted from Permendikbud no 22 2016*).....29
Table 3.4 Blueprint for Questionnaire .....31
Table 3.5 Blueprint for Interview Guide.....32
Table 3.6 The Empirical Validity using Pearson Correlation.....33
Table 3.7 Gregory Formula.....34
Table 3.8 The Level of Content Validity .....34
Table 3.9 The Guideline of Qualification Levels .....40
Table 3.10 Research Matrix.....40
Table 4.1 Mean Result of The Questionnaires.....65
Table 4.2 Koyan's Guideline of Qualification Levels .....65

## LIST OF FIGURE

Figure 3.1 The Phases of Sequential Exploratory Design .....23
Figure 3.2 Model of Data Analysis (Miles et al., 2014) .....37
Figure 4.1 Students' Activities Using Interactive PPT from Twinkl.....47
Figure 4.2 Students' Activities Using Interactive PPT from Twinkl.....48
Figure 4.3 Students' Activities Using Liveworksheets.....50
Figure 4.4 Students' Activities Using YouTube.....51
Figure 4.5 Students' Activities Using Chromebook .....51
Figure 4.6 Formative Assessment Conducted at the End of the Week.....54
Figure 4.7 Formative Assessment Conducted for the Parents .....55

## LIST OF APPENDICES

Appendix 1. Observation Checklist of The Technology Integration in English Class ..... 78
Appendix 2. Expert Judgement Sheet for Observation Checklist ..... 80
Appendix 3. Questionnaires on Teachers' Perception of Technology Integration ..... 82
Appendix 4. Expert Judgement Sheet for Questionnaire ..... 84
Appendix 5. Interview Guide on Teachers' Perception of Technology Integration ..... 86
Appendix 6. Expert Judgement Sheet for Interview Guide ..... 90
Appendix 7. Documentation of Learning Process ..... 92
Appendix 8. Observation Checklist Result ..... 54
Appendix 9. Questionnaire Results on Teachers' Perception (Technology Integration to Promote Bilingual) ..... 103
Appendix 10. Interview Guide Results on Teachers' Perception (Technology Integration to Promote Bilingual) ..... 104
Appendix 11. The Result of Teachers' Perception of Technology Integration to Promote Bilingual on SPSS ..... 122
Appendix 12. The Empirical Validity of Questionnaires Instrument ..... 130