

**RESEARCH EXPLORING INNOVATIVE STRATEGIES  
AND OPTIMIZING THE IMPLEMENTATION OF  
DIGITAL LEARNING MODELS IN HIGHER EDUCATION**

**THESIS**



**By**

**FU SHUYA**

**NIM 2429071009**

**EDUCATIONAL TECHNOLOGY STUDY PROGRAM**

**POSTGRADUATE PROGRAM**

**GANESHA UNIVERSITY OF EDUCATION**

**2026**



# TESIS

## DIAJUKAN UNTUK MELENGKAPI TUGAS DAN MEMENUHI SYARAT-SYARAT UNTUK MENCAPAI GELAR MAGISTER PENDIDIKAN

**Menyetujui**

Pembimbing I	Prof. Dr. Ni Nyoman Parwati, M.Pd. NIP.196512291990032002
Pembimbing II	Prof. Dr. Ketut Agustini, S.Si., M.Si. NIP.197408012000032001



- UU ITE No. 11 Tahun 2008 Pasal 5 Ayat 1 "Informasi Elektronik dan/atau hasil cetaknya merupakan alat bukti hukum yang sah"
- Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BSR - BSSN, validitas dokumen elektronik ini bisa dicek menggunakan aplikasi mobile VeryDS oleh BSR
- Cetakan dokumen ini merupakan salinan dari file dokumen bertandatangan elektronik yang keabsahannya dapat diakses melalui scan QRCode yang terdapat pada sertifikat ini.

Tesis oleh Fu Shuya telah dipertahankan di depan tim penguji dan dinyatakan diterima sebagai salah satu persyaratan untuk memperoleh gelar Magister Pendidikan di Teknologi Pendidikan (S2), Program Pascasarjana, Universitas Pendidikan Ganesha Pada tanggal 11 Februari 2026

### Dewan Penguji

Ketua	Prof. Dr. Ni Nyoman Parwati, M.Pd. NIP.196512291990032002
Anggota	Prof. Dr. Ketut Agustini, S.Si., M.Si. NIP.197408012000032001
Anggota	Prof. Dr. I Gde Wawan Sudatha, S.Pd., S.T., M.Pd. NIP.198202142008121004
Anggota	Dr. I Kadek Suartama, S.Pd., M.Pd. NIP.198104142006041001

Mengetahui Direktur Pascasarjana  
Universitas Pendidikan Ganesha,



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

NIP.195910101986031003

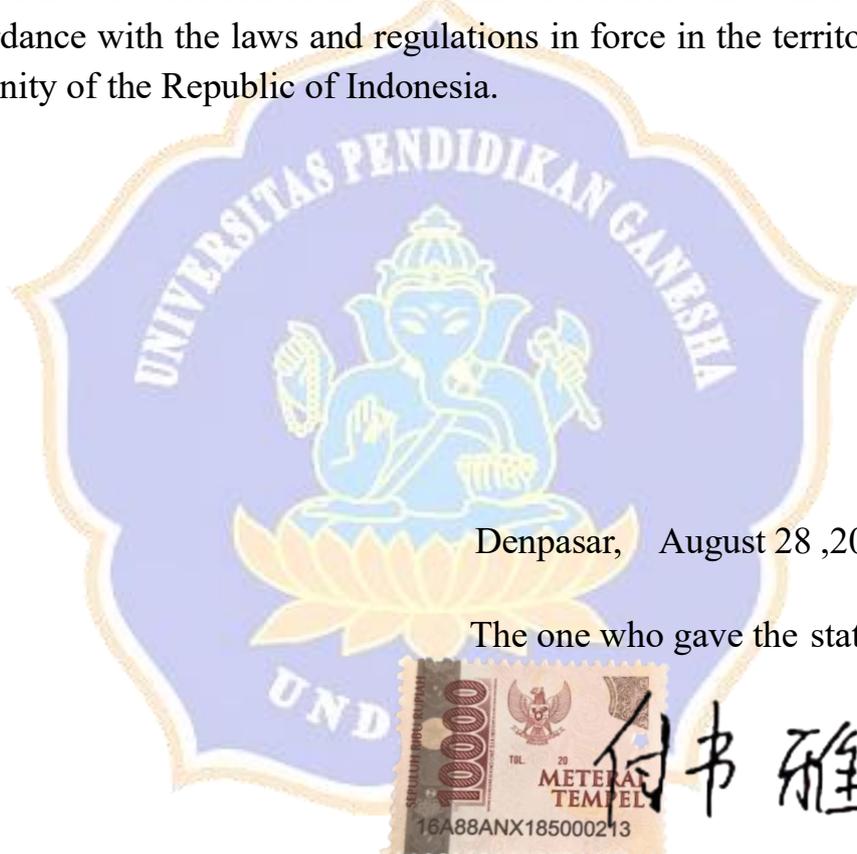


- UU ITE No. 11 Tahun 2008 Pasal 5 Ayat 1 "Informasi Elektronik dan/atau hasil cetaknya merupakan alat bukti hukum yang sah"
- Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BSR - BSSN, validitas dokumen elektronik ini bisa dicek menggunakan aplikasi mobile VeryDS oleh BSR
- Cetakan dokumen ini merupakan salinan dari file dokumen bertandatangan elektronik yang keabsahannya dapat diakses melalui scan QRCode yang terdapat pada sertifikat ini.

## STATEMENT SHEET

I declare truly that the thesis I prepared as a requirement for obtaining a Master of Education degree from the Ganesha University of Education Postgraduate Program is entirely my own work. Certain parts of my thesis writing that I quoted from other people's work have been written clearly and in accordance with academic norms, rules and ethics.

If in the future it is discovered that all or part of this thesis is not my own work or that there is plagiarism in certain parts, I am willing to accept the sanction of revocation of the academic title I hold and other sanctions in accordance with the laws and regulations in force in the territory of the State. Unity of the Republic of Indonesia.



Denpasar, August 28 ,2025

The one who gave the statement



付书雅.

Fu ShuYa

## ACKNOWLEDGEMENTS

I would like to express my sincere gratitude to all those who have supported and guided me throughout the process of completing this thesis.

1. Prof. Dr. Ni Nyoman Parwati, M.Pd., S.Pd., M. Pd. as the first supervisor who always supported me and she is the author, completed this study. Also, provided positive words and motivation that always supported the author to make a better process in writing this study.
2. Prof. Dr. Ketut Agustini, S.Si., M.Si., as the second supervisor who always provided support, give the motivation also supported the author in finishing this study.
3. I would like to thank the faculty and staff at Undiksha University. Their wealth of knowledge and experience has greatly enriched my understanding of the subject matter and broadened my academic horizons.
4. Special thanks to the Review Committee for their careful review and valuable advice. Their expertise and dedication helped refine and enhance the quality of this paper.
5. The Postgraduate staff who works in Undiksha University. Also the director and deputy director of Postgraduate University.
6. Beloved mother, father, and brothers who always provided support and motivation to keep strong while crying a lot.

Finally, the author hopes that this study will be useful for the readers. Criticism and input are highly appreciated to improve this study.

Denpasar, August 28<sup>th</sup>, 2025

Fu ShuYa

## LIST OF CONTENTS

STATEMENT SHEET.....	i
ACKNOWLEDGEMENTS.....	ii
ABSTRACT.....	iii
ABSTRAK.....	iv
LIST OF CONTENTS.....	v
LIST OF TABLES.....	viii
IMAGE LIST.....	ix
CHAPTER I.....	1
INTRODUCTION.....	1
1.1 .Research Background.....	1
1.2 Problems Identification .....	5
1.3 Scope and Limitation of the Study.....	5
1.4 Research Questions.....	6
1.5 Research Objectives .....	6
1.6 Significances of the Study.....	8
1.7 Novelty of the Research .....	9
CHAPTER II.....	10
LITERATURE REVIEW .....	10
2.1 Teaching Media.....	10
2.2 Distance Education .....	10
2.3 Interaction Design .....	11
2.4 Learn Analytical Theory.....	12
2.5 Learning motivation and outcomes.....	12
2.6 learning theory.....	13
2.7 Digital teaching mode and traditional mode.....	14
2.8 Evaluation Research.....	15
2.9 Descriptive research.....	17
CHAPTER III.....	19

RESEARCH METHOD.....	19
3.1 Research Design.....	19
3.2 Research Procedures .....	19
3.3 Research Sample.....	21
3.4 Research Instrument.....	21
3.5 Data Analysis Methods.....	22
CHAPTER IV.....	25
FINDING AND DISCUSSION.....	25
4.1 Finding.....	25
4.1.1 Basic situation of digital teaching.....	25
4.1.2 Teaching content evaluation.....	28
4.1.3 Teaching tools and resources.....	34
4.1.4 Teaching methods and interaction.....	40
4.1.5 Evaluation of Learning Effects.....	47
4.1.6 Analysis of student grades using t-test.....	50
4.2 Implications of the Study.....	51
4.2.1 Popularization Status of Digital Teaching and Distribution of Learning Time .....	51
4.2.2 Teachers' Use of Digital Tools and Adaptability of Teaching Content .....	52
4.2.3 Satisfaction with Teaching Resources and Interaction Effect .....	52
4.2.4 Reflection on Learning Effect and Mode Value .....	53
CHAPTER V.....	54
CONCLUSION .....	54
5.1 Summary.....	54
5.2 Conclusion.....	56
5.3 Suggestio .....	60
REFERENCES .....	63



## LIST OF TABLES

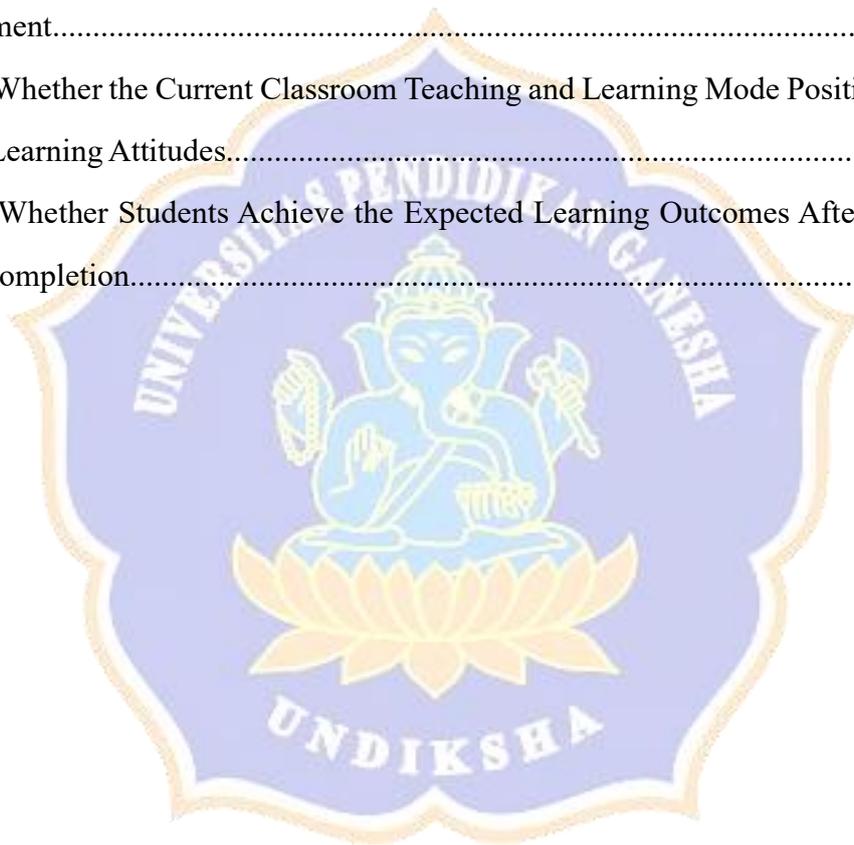
Table 4.1 T-test comparing the differences between traditional teaching and digital teaching (group statistics) .....	50
Table 4.2 T-test comparing the differences between traditional teaching and digital teaching (t-test of mean equation).....	50



## IMAGE LIST

Fig 1.1 Comparison of grades between using online exams and not using classes.....	4
Fig 3.1 Research Process.....	20
Fig 3.2 Questionnaire survey QR code.....	22
Fig 4.1 Whether to use digital teaching.....	25
Fig 4.1 Approximate time spent on this course per weeks.....	26
Fig 4.2 Whether teachers use digital teaching tools and methods effectively....	27
Fig 4.3 Whether the course content meets the curriculum outline.....	28
Fig 4.4 Perceived difficulty of course content.....	29
Fig 4.5 Whether the Course Content Aligns with the Syllabus.....	30
Fig 4.6 Whether the Course Content Is Innovative and Cutting - edge.....	31
Fig 4.7 Appropriateness of the Depth and Breadth of Course Content.....	32
Fig 4.8 Whether the Course Objectives Are Clear and Matched with the Teaching Content.....	33
Fig 4.9 Acceptance of the Teaching Mode.....	34
Fig 4.10 Whether the Use of Teaching Tools in Current Classes Is Convenient.....	35
Fig 4.11 Satisfaction with Resources Provided by the Course.....	36
Fig 4.12 Whether the Course Resources Are Sufficient.....	37
Fig 4.13 Whether the Online Resources Provided by the Course Are Abundant and Updated in a Timely Manner.....	38
Fig 4.14 Whether the Teaching Resources Are Helpful for Students to Deeply Understand the Course Content.....	39
Fig 4.15 Course Learning Activity.....	40
Fig 4.16 Whether the Interactive Elements of the Course Are Helpful for Learning.....	41

Fig 4.17 Whether the Teaching Methods Are Conducive to Enhancing Students' Learning Abilities and Attitudes.....	43
Fig 4.18 Applicability of Teaching Methods to Students with Diverse Learning Styles.....	44
Fig 4.19 Whether the Course Encourages Interactions Among Students.....	45
Fig 4.20 Whether One's Own Feedback on Students' Interactions Is Timely and Effective.....	46
Fig 4.21 Whether the Course Content Contributes to Professional Development.....	47
Fig 4.22 Whether the Current Classroom Teaching and Learning Mode Positively Impacts Learning Attitudes.....	48
Fig 4.23 Whether Students Achieve the Expected Learning Outcomes After the Course Completion.....	49



## APPENDIX

1. Questionnaire content: Student Evaluation Form .....	70
2. Questionnaire content: Teacher evaluation during class.....	74
3. Student Listening Evaluation Form .....	78
4. Teacher evaluation during class.....	84
5. Final version of survey questionnaire (signed by experts).....	92

