

GUIDELINES

for

writing

Ph.D. Thesis

by

Research Scholars



LINGAYA'S VIDYAPEETH

FARIDABAD

May please be approved.

(Wj) 28/07/2023

Juc e-a
28/7/2023

ML
28/7

GUIDELINES FOR WRITING Ph. D. THESIS BY RESEARCH SCHOLARS

I. PRELIMINARY PAGES

a) TITLE PAGE (ANNEXURE-1)

The title page should be in capital letters. It should be concise, specific and reflect the proposed research program.

b) DECLARATION (ANNEXURE-2)

c) CERTIFICATE (ANNEXURE-3)

d) ACKNOWLEDGEMENTS (ANNEXURE-4)

e) ABSTRACT (ANNEXURE-5)

f) TABLE OF CONTENTS (ANNEXURE-6)

g) LIST OF TABLES (ANNEXURE-7)

h) LIST OF FIGURES (ANNEXURE-8)

i) LIST OF SYMBOLS (ANNEXURE-9)

j) LIST OF PHOTOGRAPHS (ANNEXURE-10)

k) LIST OF ABBREVIATIONS (ANNEXURE-11)

l) REFERENCES (ANNEXURE-12)

m) APPENDIX (ANNEXURE-13)

n) BRIEF PROFILE OF THE RESEARCH SCHOLAR (ANNEXURE-14)

o) LIST OF PUBLICATIONS OUT OF THE THESIS (ANNEXURE-15)

II. FORMAT FOR THE REPORT

a) **Paper to be used:** The Thesis should be prepared on a good quality white bond paper of A4 size.

b) **Margins:** Following should be the margins:

(i) **Odd number page:** 1.5”margin on the left and 1” margin on the right.

(ii) **Even number page:** 1”margin on the left and 1.5” margin on the right.

(iii) **Top and Bottom of page:** 1”margin on the top and bottom, with no gutter.

c) **Chapters:** In a double-sided report, a new chapter always starts on an odd-numbered page. Therefore, if a chapter ends on an odd-numbered page, the backside of the previous sheet of paper has to be kept blank. In a double-sided report, each side of a sheet of paper should be counted as a page, even if the back side of a sheet of paper is blank.

d) **Typing:** The general text of the manuscript should be typed in 1.5-space. The general text should be typed using 12-font size with Times New Roman.

e) **Pagination:** Title Page should not be given any page number.

(i) Prefacing materials should be given centered small Roman page numbers.

(ii) For text, centered Arabic numerals should be used, beginning with the first page of the text and continued throughout the rest of the Thesis including the figures, tables and references.

The pages on which the corrections have been suggested by the External Examiner will have to be retyped. It may happen in a few cases that the external examiner suggests adding new material, this would disturb the paging of the Thesis and is, therefore, required to be corrected accordingly. Numbering pages like 15a, 15b, 15c etc. would not be permitted.

f) **Double-Sided Printing:** Printing should be done on both sides of the page.

g) **Binding:** The evaluation copies of the Thesis may be spiral bound or soft bound. The final hard

bound copies to be submitted after the Viva-Voce examination will be accepted during the submission of Thesis with the following specification:

Color – Dark Blue, Binding - Hard Bound, Lettering - Golden Color Embossing.

The Scholar is advised to see physical sample available in Lingaya's Vidyapeeth, Faridabad.

h) Number of Copies: Seven (07).

III. MAIN BODY OF THE THESIS

a) Illustrations: Illustrations used in the Thesis must appear in all the copies. Illustrative materials may be Arabic line drawings or photographs. Illustrations may be inserted wherever needed in the text, numbered in Arabic numerals typed on a Thesis paper below the illustration. The illustrations must be prepared using computer. The size of illustrations could be reduced photographically.

b) References in the text should be cited as under:

How to write a reference in Thesis/Synopsis?

Three main Styles: 1. APA Style 2. HARVARD Style 3. VANCOUVER Style

The Thesis should be written in APA style

IV. APPENDIX

An appendix normally includes research related material that does not fit easily or suitably in the body of the paper:

- survey questionnaires
- observation sheets
- interview transcripts
- supplementary data which adds useful information or insight.

An Appendix:

- is positioned as the final section of Thesis.
- is numbered and titled
- uses a different page numbering system ('A-1', 'A-2' etc.).

**INFLUENCE OF INSECTICIDES ON DEFENCE
RELATED ENZYMES AND CARBOHYDRATE
METABOLISM IN AMERICAN COTTON**

THESIS

Submitted to

LINGAYA'S VIDYAPEETH

in partial fulfillment of the requirements of the award of the degree of

DOCTOR OF PHILOSOPHY

by

Scholar's Name

Registration No.:

Under the Supervision of

Supervisor's Name

DESIGNATION



NAME OF THE DEPARTMENT

Name of the School

LINGAYA'S VIDYAPEETH

Faridabad, Haryana, India

MONTH YEAR



Lingaya's Vidyapeeth

Deemed-to-be-University u/s 3 of UGC Act 1956, Government of India

NAAC ACCREDITED

Approved by MHRD/ AICTE/ PCI/ BCI/ COA/ NCTE

Nachauli, Jasana Road, Faridabad – 121002; Ph: 0129-2598200-05

Website: www.lingayasvidyapeeth.edu.in

(ANNEXURE—2)

DECLARATION

Body Text

I hereby declare that this Thesis entitled <TITLE OF THESIS> by <NAME OF RESEARCH SCHOLAR>, <REG. NO. (XXXX)> being submitted in fulfilment of the requirements for the Doctor of Philosophy in < NAME OF DEPARTMENT> under < NAME OF SCHOOL> of Lingaya's Vidyapeeth, Faridabad, during the academic year _____, is a bona fide record of my original work carried out under guidance and supervision of **NAME OF SUPERVISOR, DESIGNATION, DEPARTMENT** and has not been presented elsewhere.

I further declare that the Thesis does not contain any part of any work which has been submitted for the award of any degree either in this university or in any other university.

(Signature of Research Scholar)

Name of Research Scholar

Registration No. _____

Department of _____

School of _____

Lingaya's Vidyapeeth, Faridabad

Dated:



Lingaya's Vidyapeeth

Deemed-to-be-University u/s 3 of UGC Act 1956, Government of India

NAAC ACCREDITED

Approved by MHRD/ AICTE/ PCI/ BCI/ COA/ NCTE

Nachauli, Jasana Road, Faridabad – 121002; Ph: 0129-2598200-05

Website: www.lingayasvidyapeeth.edu.in

(ANNEXURE—3)

CERTIFICATE

<Font-Style Times New Roman, size – 16>

Body Text

This is to certify that this Thesis entitled <TITLE OF THESIS> by <NAME OF SCHOLAR>, <REG. NO. (XXXX)> submitted in the fulfillment of the requirement for the Degree of Doctor of Philosophy in < NAME OF DEPARTMENT> under < NAME OF SCHOOL> of Lingaya's Vidyapeeth, Faridabad, during the academic year _____, is a bona fide record of work carried out under my/our guidance and supervision.

I / We further declare that to the best of my knowledge; the Thesis does not contain any part of any work which has been submitted for the award of any degree either in this university or in any other university. The assistance and help received during the course of this investigation have been acknowledged.

(Signature of Supervisor)

Name of Supervisor

Designation, Department of _____, School of _____

Lingaya's Vidyapeeth, Faridabad

Dated:

(Signature of Co-Supervisor)

Name of Co-Supervisor

Designation, Department of _____, School of _____

Institute / University, Place

Dated:

(Signature of HOD)

Name of HOD

Designation, Department of _____, School of _____

Lingaya's Vidyapeeth, Faridabad

Dated:

ACKNOWLEDGEMENTS

Body Text

I would like to express my sincere gratitude to my Supervisor <NAME OF SUPERVISOR> / CO-SUPERVISOR <NAME OF CO-SUPERVISOR> for giving me the opportunity to work in this area. It would never be possible for me to take this Thesis to this level without his/her innovative ideas and his/her relentless support and encouragement.

.....
.....

(Signature of Research Scholar)

Name of Research Scholar

Registration No. _____

Department of _____

School of _____

Lingaya's Vidyapeeth, Faridabad

Dated:

ABSTRACT

Body Text

TABLE OF CONTENTS

Body Text

| | |
|--|------|
| RESEARCH SCHOLAR'S DECLARATION | i |
| CERTIFICATE OF THE SUPERVISOR | ii |
| ACKNOWLEDGEMENT | iii |
| ABSTRACT | iv |
| TABLE OF CONTENTS | v |
| LIST OF TABLES | vi |
| LIST OF FIGURES | vii |
| LIST OF SYMBOLS | viii |
| LIST OF ABBREVIATIONS | xix |
| 1. INTRODUCTION | 1-N |
| 1.1 SECTION..... | 1 |
| 1.2 SECTION..... | |
| 1.2.1 Section..... | |
| 1.2.2 Section..... | N |
| 2. CHAPTER 2 | -- |
| 3. CHAPTER 3 | -- |
| 4. CHAPTER 4 | -- |
| 5. CHAPTER 5 | -- |
| N. CONCLUSION AND SCOPE FOR FURTHER WORK | -- |
| REFERENCES..... | -- |
| APPENDIX | -- |
| BRIEF PROFILE OF THE RESEARCH SCHOLAR..... | -- |
| LIST OF PUBLICATIONS OUT OF THE THESIS..... | -- |

LIST OF TABLES

Body Text

| Table No. | Title | Page No. |
|------------------|----------------------|-----------------|
| Table 3.1 | Title of Table | -- |
| Table 4.2 | Title of Table | -- |
| Table 5.2 | Title of Table | -- |

LIST OF FIGURES

Body Text

| Figure No. | Title | Page No. |
|-------------------|----------------------|-----------------|
| Figure 1.1 | Title of Figure..... | -- |
| Figure 1.2 | Title of Figure..... | -- |
| Figure 1.3 | Title of Figure..... | -- |

LIST OF SYMBOLS

Body Text

| Symbol | Details |
|-----------|--|
| a_{RMS} | RMS value of vertical acceleration |
| c_p | Primary suspension damping coefficient |
| c_s | Secondary suspension damping coefficient |
| d_{RMS} | RMS value of vertical displacement |
| $de(t)$ | Change of error signal |
| $e(t)$ | Error signal |

LIST OF PHOTOGRAPHS

Body Text

| Photograph No. | Title | Page No. |
|-----------------------|---------------------------|-----------------|
| Photograph 1.1 | Title of Photograph | -- |
| Photograph 2.1 | Title of Photograph..... | -- |
| Photograph 3.1 | Title of Photograph | -- |

LIST OF ABBREVIATIONS

Body Text

| Abbreviation | Details |
|---------------------|---------------------------------------|
| ANFIS | Adaptive Neuro Fuzzy Inference System |
| ANOVA | Analysis of Variance |
| ASD | Amplitude Selective Damping |
| BBM | Black Box Model |
| CFD | Computational Fluid Dynamics |
| CCFD | Coupled Computational Fluid Dynamics |
| DC | Direct Current |

REFERENCES

Body Text

The list of references should appear as a consolidated list with references listed sequentially as they appear in the text of the Thesis. Spacing and font size should be consistent inside a single reference, and there should be 1.5 spacing between two different references.

Text References

Owing to its detoxification enzymes like hydrolases, transferases and oxygenases this insect pest has managed to attain resistance against all the classes of insecticides (Mohan and Gujar, 2003). The involvement of Glutathion-S-transferase, carboxylesterase, and microsomal monooxygenase has been widely reported in insecticide resistance (Brown and Brogdon, 1987; Devonshire and Field, 1991; Sun, 1992). The resistance develops through various biochemical mechanisms like altered target site of acetylcholinesterase in organophosphate and carbamates resistance (Liu et al., 1982; Brogdon and McAllister, 1998; Ffrench-Constant et al., 2004; Fournier, 2005).

Reference Style

Brogdon, W.G. and McAllister, J.C. (1998). Insecticide Resistance and Vector Control. *Emerg Infect Disease* 4(4): 605-13.

Brown, T.M. and Brogdon, W.G. (1987). Improved detection of insecticide resistance through conventional and molecular techniques. *Annu Rev Entomol* 32: 145-62.

Devonshire, A.L. and Field, L.M. (1991). Gene amplification and insecticide resistance. *Annu Rev Entomol* 36: 1-23.

Ffrench-Constant, R.H., Daborn, R.J. and Goff, L.G. (2004). The genetics and genomics of insecticideresistance. *Trends Genet.* 20(3): 163-70.

Fournier, D. (2005). Mutations of acetylcholinesterase which confer insecticide resistance in insect populations. *Chem Biol Interact* 157–158: 257–61.

Liu, M.Y., Tzeng, Y.J. and Sun, C.N. (1982). Insecticide resistance in the diamondback moth *J. Econ Entomol* 75: 153-155.

Mohan, M. and Gujar, G.T. (2003). Local variation of the Diamondback moth, *Plutella xylostella* (Linnaeus) to insecticides and role of detoxification enzymes. *Crop Prot.* 22: 495-504.

Sun, C.N. (1992). Insecticide resistance in Diamondback moth. In: Talekar N S (ed) Management of Diamondback moth and other crucifer pest. *Proc 2nd international workshop* pp. 419-26. Asian vegetable research and Development center, Taiwan.

Journals

Ffrench-Constant, R.H., Daborn, R.J. and Goff, L.G. (2004). The genetics and genomics of insecticide resistance. *Trends Genet.* 20(3): 163-70.

Conferences

Author name, Initials. (Year, Month Day–Day). Paper Title. Conference Name, City, State, Country.

Jang, S. (2019, August 8–11). Deconstructing the opposition of natural/arbitrary in Coleridge's theory of language. NASSR 2019: Romantic Elements, Chicago, IL, United States.

Books

Jackson, L. M. (2019). The psychology of prejudice: From attitudes to social action (2nd ed.). American Psychological Association. <https://doi.org/10.1037/0000168-000>.

APPENDIX

Body Text

(ANNEXURE-14)

BRIEF PROFILE OF THE RESEARCH SCHOLAR

Body Text

LIST OF PUBLICATIONS OUT OF THE THESIS

Body Text

List of Published Papers:

1. Author Names, Paper Title, Journal Name, No. , Volume & Issue, Year, Pages, Online Link.
2. Author Names, Paper Title, Journal Name, No. , Volume & Issue, Year, Pages, Online Link.
3. -----

Format of Tables

Table 1.1 Education Wise Awareness about Risk Reduction Techniques

| Sr. No. | Education | Yes | No | Total |
|---------|--------------|-----|----|-------|
| 1. | Below Matric | 0 | 22 | 22 |
| 2. | Matric/10+2 | 2 | 34 | 36 |
| 3. | Graduation | 2 | 19 | 21 |
| 4. | PG | 15 | 6 | 21 |
| Total | | 19 | 81 | 100 |

Table 3.12 Signal-to-Noise (S/N) ratio equations

| Quality characteristics | S/N ratio |
|-------------------------|--|
| Lower is better | $-10 \log \left(\frac{1}{n} \sum y_i^2 \right)$ |
| Nominal is best | $-10 \log \left(\frac{1}{n} \sum (y_i - y_0)^2 \right)$ |
| Higher is better | $-10 \log \left(\frac{1}{n} \sum \frac{1}{y_i^2} \right)$ |

Format of Figures

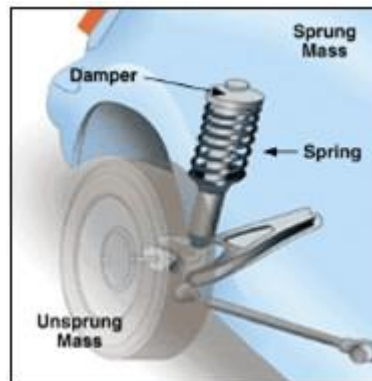


Figure 1.1 Primary suspension system

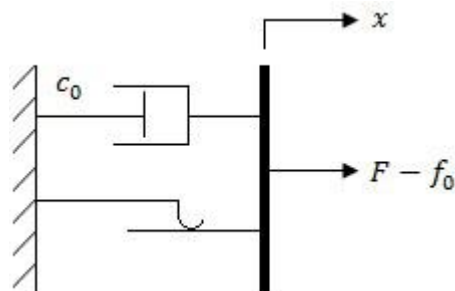


Figure 2.2 Bingham model