

## **UNIVERSITY OF EMBU**

## OFFICE OF THE DIRECTOR BOARD OF POSTGRADUATE STUDIES

## GUIDELINES FOR PREPARING AND FORMATING OF MASTER'S AND PH.D. THESES

- 1. Examination Copies Six (6) Spiral bound copies.
- 2. Final copies Four (4) copies All (both Master's and PhD) theses in the University of Embu shall be black. Plus CD with name of Candidate marked in felt pen.
- The thesis must be type-written or printed on good quality of A4 size (210 x 297 mm).
  Font Times New Roman shall be used.
- 4. Top cover page Printed in gold, bold, font 16 and centered.-See provided sample page.
- 5. The Spine Surname followed by initials, the degree for which the thesis is being submitted, and the year printed in gold, bold, font 16. The writing should read from the bottom to the top of the spine.
- 6. Margins The Left margin of thesis should be 40 mm, wide. Top, Right and bottom margins of thesis should be 25 mm. wide.
- 7. Apart from the cover and the front page to abstract, the thesis should be in Times New Roman font size twelve (12).
- 8. From the Declaration to Abstract be numbered in Roman numbers starting i, ii, iii...bottom centre.
- 9. The rest of the document starting Chapter one should be number using Arabic numbers starting 1, 2, 3... bottom centre.
- 10. The whole document should be 1.5 spaced apart from prescribed sections.
- 11. The respective department shall advise on referencing style. In the absence of departmental guidelines, APA format for referencing shall be used.

- 12. Length of thesis. The respective department shall advise on expected length of thesis. In the absence of departmental guidelines, a master's thesis is expected to range 50 to 100 pages and a PhD thesis 100 to 200 pages excluding references and appendices.
- 13. Front page Capital letters shall be used, in bold, font 14 and (the whole title page should be symmetrically arranged).

The front (title) page must be arranged as follows:

Full name of the Candidate

Then "A thesis submitted in partial fulfilment for the Degree of (insert name of degree) in the University of Embu. This statement should appear at the middle of the page. The month and year

- 14. Declaration Start on new page- In font 12 duly signed by candidate and supervisors.The declaration page must contain the order indicated below:
  - a) a signed declaration by the candidate with the following statement: "This thesis is my original work and has not been presented for a degree in any other University".
  - b) a signed declaration by each of the University supervisors with the following statement: "This thesis has been submitted for examination with my (our) approval as University Supervisor(s)".
- 15. Dedication Start on new page- Optional
- 16. Copyright optional. If included, align with University IP policy.
- 17. Acknowledgement Start on new page -To universities, supervisors, parents, etc.- Optional
- 18. Table of Contents Start on new page- List of all chapters/topics in the thesis.
- 19. List of Tables Start on new page. Where applicable.
- 20. List of Figures Start on new page. Where applicable.
- 21. List of Plates Start on new page. Where applicable.
- 22. List of Appendices Start on new page Where applicable.
- 23. List of Abbreviations /Acronyms Start on new page. Where applicable.
- 24. List of Nomenclatures Start on new page. Where applicable.
- 25. Abstract Single spaced and one page maximum. Though appears first should be written last.
- 26. Order of names: on cover page. First Name, Middle Name and Last Name.
- 27. Thesis Chapters. The respective department shall advise on thesis chapters. In the absence of departmental guidelines, the following shall apply.

27 a) Master's and PhD Theses shall have five chapters. Each chapter should start on a new page, written in capital letters and laid out as follows

### CHAPTER ONE INTRODUCTION

### CHAPTER TWO REVIEW OF LITERATURE

### CHAPTER THREE MATERIALS AND METHODS

### CHAPTER FOUR RESULTS

### CHAPTER FIVE DISCUSSION, CONCLUSION AND RECOMMENDATIONS.

**REFERENCES** -Shall come after last chapter but shall not be given a chapter number.

-References shall be single spaced.

-Literature must be cited by author and date or by number in the text, and a list of

references must appear at the end of thesis.

27 b) **Or** Master's and PhD Theses, may upon the recommendation of the School follow a thematic format. Where the thematic format is used the chapters shall be:

### **CHAPTER ONE - GENERAL INTRODUCTION**

THEMATIC CHAPTERS (which shall be numbered)

SYNTHESIS (this chapter shall be numbered).

**REFERENCES** -Shall come after last chapter but shall not be given a chapter number.

-References shall be single spaced.

- Literature must be cited by author and date or by number in the text, and a list of references must appear at the end of thesis.

28. Candidates should consult the respective department if they require any advice on any matter concerning the form of a thesis not covered by these guidelines.

29. General Thesis Outline

### CHAPTER ONE INTRODUCTION.

To include: Background of the study Problem statement Justification Research questions (where applicable) Hypothesis Objectives General Objective-Should be related to the title Specific objectives –Should be closely linked to the research questions and hypothesis. Conceptual framework (where applicable) Scope (where applicable)

## CHAPTER TWO LITERATURE REVIEW

To include all relevant literature to each objective should be exhaustively cover ever objective of the study subheadings may sometimes be useful.

### CHAPTER THREE MATERIALS AND METHODS

To include: Description of the study area (if a field observation study was done). The target population. Sampling designs, techniques and illustrations. The research designs. Data collection procedures. Data analysis. Regulatory requirements such as ethical clearance, research permits, biosafety clearance or KWS permission among others.

## **CHAPTER FOUR**

### RESULTS

The actual data from the study should be presented.

The narrative should be accompanied by illustrations such as plates, figures or tables.

Each table or figure given should be accompanied by a summary or interpretation.

### CHAPTER FIVE DISCUSSION, CONCLUSION AND RECOMMENDATIONS.

Should include:

The discussion of results (without repeating the results) which is guided by the objectives. Conclusions drawn to respond to the objectives.

Based on the conclusions make recommendations.

#### REFERENCES

- To use the style determined by the department. In the absence of departmental guidelines APA style shall be used. Consistency is important in citation.

The candidate should confirm the format with BPS office before binding the final Thesis.

### THE PRELIMINARY PAGES

The preliminary pages of the thesis should mirror the usual scholarly books.

- i) **Title pages:** This indicates the title of the study, the author's name, the degree requirement being fulfilled, the name of the University awarding the degree, the date of submission of the thesis and the signing of the supervisors.
- ii) **Declaration page**: This should be written as:

"This thesis is my original work and has not been presented for a degree in any other university." The student signs his/her name and registration number

All the supervisors then sign the thesis, starting with the main supervisor. At least two full names for each supervisor should be written. Their positions at work e.g. Senior Lecturer, Chairman of Department etc should however not be included:

How a sample thesis in the University of Embu is expected to look like is provided.

**UNIVERSITY OF EMBU** 

## JANE KERUBO OTIENO

## DOCTOR OF PHILOSOPHY THESIS

JANUARY, 2019

# MIGRATION OF THE KENYAN BLACK RHINOCEROS IN THE TSAVO NATIONAL PARK (DICEROS BICORNIS MICHAELI ZUKOWSKY 1965)

JANE KERUBO OTIENO (MSc)

## A THESIS SUBMITTED IN PARTIAL FULFILLMENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN ECOLOGY IN THE UNIVERSITY OF EMBU

**JANUARY, 2019** 

#### **DECLARATION**

This thesis is my original work and has not been presented for a degree in any other University

Signature..... Date.....

Nathaniel Kimunya Mwandawiro Department of Biological Sciences EB37/2012/2014

This thesis has been submitted for examination with our approval as the University Supervisors

Signature	Date
Prof. Williamson Nyakoe	
Department of Biological science	

Embu University College

Signature.....Date.....Dr. John Jassen SmithSchool of BioinformaticsCardiff University, United KingdomImage: Cardiff University Cardiff University United Kingdom

Signature..... Date..... Dr. Judy Njeri Mwananchi Department of Botany Egerton University

## **DEDICATION** (optional)

## ACKNOWLEDGEMENT

## TABLE OF CONTENTS

DECLARATION	ii
ABSTRACT.	iii
DEDICATION	iv
ACKNOWLEDGEMENT	V
ABBREVIATIONS / ACRONYMS	vi
TABLE OF CONTENTS	vii
LIST OF TABLES	xi
LIST OF FIGURES	xii

CHAPTER ONE: INTRODUCTION	1
1.1 Background to the study1	
1.2 Problem statement	
CHAPTER TWO: REVIEW OF LITERATURE	
2.0 Historical background	
2.1 Magnitude	
2.2 Causative organism	
2.3 Clinical features	
2.4 Epidemiology	

### LIST OF TABLES

Table 1:	Gram negative bacteria isolated from River Narok	41
Table 2	Gram positive bacteria isolated from River Narok	45
Table 4:	Gram negative bacteria resistant to antibiotics	76

### LIST OF FIGURES

Figure 1:	The study area
Figure 2:	Ethanol degradation by Gram positive bacteria

## LIST OF PLATES

Plate 1:	Cultivation along the banks of River Narok	7
Plate 2:	Densely populated Embu	30
Plate 3:	Gold mining at Voi	.8

## LIST OF APPENDICES

Appendix 1:	Ethical Approval of Study	
Appendix 2:	Interpretation of API 20NE results	232
Appendix 3:	API 20E Media and reagents	240

## LIST OF ABBREVIATIONS/ACRONYMS

- AA Atomic absorption
- BP Blood Pressure
- MK Mount Kenya
- ZF Zinc Finger

## LIST OF NOMENCLATURE

## ABSTRACT

### **CHAPTER ONE**

## INTRODUCTION