



**BUSITEMA
UNIVERSITY**
Pursuing Excellence

30/43

P.O. Box 236, Tororo, Uganda
Gen: +256 - 45 444 8830
Fax: +256 - 45 4436517
Email: info@adm.busitema.ac.ug

www.busitema.ac.ug

**A CONPREHENSIVE INDUSTRIAL TRAINING REPORT CARRIED OUT AT ARAPAI
CAMPUS FARM - FACULTY OF AGRICULTURE AND ANIMAL SCIENCE FROM 20TH
MAY TO 26TH JULY 2019.**

BY;

OJAO ANDREW

BU/UP/2018/2481

TEL; +256776-917481

EMAIL; ojaoandrew45@gmail.com

8


**SUBMITTED TO THE DEPARTMENT OF AGRI-BUSINESS AND RURAL EXTENSION,
FACULTY OF AGRICULTURE AND ANIMAL SCIENCES BUSITEMA UNIVERSITY-
ARAPAI CAMPUS IN PARTIAL FULFILLMENT OF THE REQUIREMENT OF AWARD OF
DIPLOMA IN CROP PRODUCTION AND MANAGEMENT.**

DATE OF SUBMISION; ___ / ___ / 2019


DECLARATION

I OJAO ANDREW declare that the contents of this report are the work done during my industrial training and has not been authorized to any university or institution of higher learning.

Student

Sign..........Date 27th/08/2019.....

Field Supervisor

Sign..........Date 29/08/2019.....

Academic supervisor.

Sign.....Date.....



DEDICATION

I dedicate this report to my Mother Oliwa Loy, brother; otukei francis, sister; Akol Norah all the support that they rendered to me day by day.

May the good lord bless you abundantly?

①

ACKNOWLEDGEMENT

First and foremost, I would love to appreciate my brother Otukey Francis for paying my tuition at this tertiary level and my mother for her precious love and care during my entire life from childhood

I am greatly indebted to all authors whose books have been used for guidance and referencing during my extensive research. I also owe infinite thanks to the faculty dean of Buac who granted me permission to join the university farm for my training; Mr Ewalu Moses Patrick, Buluma David, Otim Julius for working to make sure that, the report produced would make me successful in future.

I further more thank all my lecturers in their respective capacity for guiding me in report writing skills. I would like also to acknowledge my friends, course mates and my parents for their support towards success of my industrial not forgetting the head of department of agri-business and entire staff of Buac.

Table of Contents

DECLARATION ii

DEDICATION iii

ACKNOWLEDGEMENT iv

LIST OF ABBREVIATIONS viii

LIST OF TABLES AND FIGURES viii

ABSTRACT ix

1.0 CHAPTER ONE 1

 1.1 Introduction 1

 1.2 Objective of the internship 1

 1.3 Background of Buac 1

 1.4 Location 1

 1.5 Vision 1

 1.6 Mission 1

 1.7 Research farm section 1

2.0.0 CHAPTER TWO; DESCRIPTION OF ACTIVITIES 2

 2.0.1 HUMAN DEVELOPMENT 2

 2.0.2 Sexually transmitted diseases 2

 2.0.3 Fertility awareness 3

 2.0.4 Abortion 3

 2.0.5 Tradition and care 3

 2.0.6 Drug and substance abuse 4

 2.1 PASTURE PRODUCTION AND MANAGEMENT 4

 2.1.1 Types of pastures 4

 2.1.2 Management of established pasture garden 4

 2.1.3 Hay 4

 2.1.4 Procedure for making hay 4

 2.1.5 Silage 5

 2.1.6 How to make Silage 5

 2.2 POULTRY PRODUCTION AND MANAGEMENT 5

 2.2.1 Principles of poultry production 5

 2.2.2 Routine management 6

 2.2.3 Signs of sick birds 6

 2.2.4 Other activities carried out in the poultry unit 7

 2.3 BANANA PRODUCTION 8

 2.3.1 Agronomy of bananas 8

 2.3.2 Other activities carried out in banana plantation 11

 2.4 CATTLE SECTION 11

2.4.1	Introduction.....	11
2.4.2	Animal health and management.....	12
2.4.3	Animal restrain.....	13
2.4.4	Tick control methods.....	14
2.4.5	Different farm structures in a farm.....	14
2.4.6	Other activities carried in cattle section.....	15
2.5.0	MAJOR CROP DISEASES AND PESTS.....	15
2.5.1	Examples of organic pesticides.....	19
2.5.2	Examples of herbicides.....	19
2.5.3	Herbicide mode of action.....	20
2.5.4	Classification of pesticides.....	20
2.6.0	GREEN HOUSE PRODUCTION AND MANAGEMENT.....	21
2.6.1	Components of a green house.....	21
2.6.2	Tomato varieties grown in the open field and green house.....	21
2.6.3	Pest and disease management in tomatoes.....	21
2.6.4	Nutrients deficiencies in the green house.....	22
2.6.5	Fertilizers commonly used in the green house.....	23
2.7	PIGGERY FARMING.....	23
2.7.1	Introduction.....	23
2.7.2	Common Breeds of pigs.....	24
2.7.3	Common diseases that attack pigs.....	25
2.7.4	Controlling and treating diseases in pigs.....	25
2.7.5	Other activities carried out in piggery section.....	28
2.8	CITRUS PRODUCTION AND MANAGEMENT.....	29
2.8.1	Introduction to citrus.....	29
2.8.2	Agronomy of citrus.....	29
2.8.3	Care for young trees.....	33
2.8.4	Other activities carried out in citrus.....	33
2.9	MUSHROOM PRODUCTION AND MANAGEMENT.....	34
2.9.1	Introduction.....	34
2.9.2	Management practices for mushroom.....	35
2.9.3	Mushroom products.....	36
2.9.4	Other activities carried out in mushrooms.....	36
3.0	CHAPTER THREE: IMPACTS OF ATTACHMENT.....	37
3.1	Skills gained during the attachment.....	37
3.3	How the attachment will influence my future career plans.....	37
3.4	Correlation of the field attachment to the class room knowledge.....	37
4.0	CHAPTER FOUR: CONCLUSION AND RECOMMENDATIONS.....	38

4.1	Conclusions.....	38
4.2	Recommendations.....	38
5.0	APPENDICES.....	39
5.0.1	Appendix 1: Photo Gallery.....	39
5.0.2	Appendix 2: Work plan showing activities carried out in Arapai campus farm during industrial training from 20 th /05/-26 th /07/2019.....	40
	REFERENCES.....	43

②

LIST OF ABBREVIATIONS

BUAC.	Busitema University Arapai Campus.
IT	Industrial Training
DAP	Diploma in Animal Production and Management
DCP	Diploma in Crop Production and Management
CGA	Certificate in General Agriculture
e.g	for example
BBW	Banana Bacterial Wilt
WHO.	World Health Organisation.
BXW	Banana Xanthomonas Wilt.
STI	Sexual Transmitted Infections

①

LIST OF TABLES AND FIGURES

List of tables

Table 1 Showing feed formulation.	6
Table 2 Showing common diseases of poultry	7
Table 3 Showing pest of tomatoes, their feeding mechanisms, damages and control measures ..	22
Table 4 Showing diseases of tomatoes, causes, signs and control measures.....	22
Table 5 showing the different age groups of pigs to be fed.	26
Table 6 showing stage proportion to make the complete diets.	27
Table 7 Showing citrus diseases, pest damage and control measures	30
Table 8 Showing Varieties of oranges.	31

②

ABSTRACT

This IT was conducted for 10 weeks Arapai campus farm located along Soroti-moroto high way 6.5km from Soroti town from the 20TH May to 26TH July 2019

Busitema University is a public university established by stator instrument number 22, 2007 enacted by the parliament on the 10/05/2007. The university is a malty campus model with seven (7) campuses namely; Arapai, Busitema, Kaliro, Mbale, Nagongera, Pallisa and Namasagali campus.

BUAC first started as agricultural college in 1956 being officially opened by Dr. COHEN M.C.C.

Recently in 2009, it was upgraded a campus under Busitema university up to date. It started by offering CGA, DAP, DCP, APM and later introduced two more courses i.e. BSA and BAB in 2017

Arapai campus is located 6.5 km along Soroti-Moroto road the former Arapai agricultural college in Soroti district with an estimation of 671 hectares of land.

The objective of this IT is to expose the students to the community members in the field they are working with and enable them to put into practice the knowledge which has been acquired from class theoretically.

During the course of my training, various activities were carried out in two departments i.e. crop and animal which included the following; castration, aging of goats, disease identification and treatment, feed formulation, vaccination, breed identification, pruning, planting vegetables, weeding, spraying, potting, digging planting holes, planting etc.

However, knowledge and skills were attained in both departments which included the following:

Animal skills; Disease Identification, Treating sick animals, feed formulation for animals and birds using locally available feeds, Poultry disease identification and control measures. **Crop skills;** Field marking, Pest and disease identification and management, Green house management, Horticultural crops production and management, Crop spraying techniques (using a knap sack sprayer).

Since the training involved much in practical activities like; treating animals, spraying, weeding, etc. the training completed successfully. And I would like to recommend the university to; buy enough tools like; Pangas, axes, tape measures, pruning saws etc. in order to reduce limitedness in tools and equipment to be used during filed activities like; field marking, pruning etc., to stock inputs like; agro-chemicals and drugs in the farm for proper parasites, pest and diseases control in the farm to reduce depopulation of animals and pest damages to crops,



1.0 CHAPTER ONE.

1.1 Introduction.

This IT was conducted for 10 weeks Arapai campus farm located along Soroti-moroto high way 6.5km from Soroti town from the 20TH May to 26TH July 2019.

1.2 Objective of the internship.

The objective of this IT is to expose the students to the community members in the field they are working with and enable them to put into practice the knowledge which has been acquired from class theoretically.

1.3 Background of Buac

Busitema University is a public university established by stator instrument number 22, 2007 enacted by the parliament on the 10/05/2007. The university is a malty campus model with seven (7) campuses namely; Arapai, Busitema, kaliro, Mbale, nagongera, Pallisa and namasagali campus.

BUAC first started as agricultural college in 1956 being officially opened by Dr. COHEN M.C.C. Recently in 2009, it was upgraded a campus under Busitema university up to date. It started by offering CGA, DAP, DCP, APM and later introduced two more courses i.e. BSA and BAB in 2017

1.4 Location.

Arapai campus is a faculty of agriculture and animal science based at the former Arapai national agricultural college located along Soroti-Moroto high way 6.5km from Soroti town

1.5 Vision.

To be a center of academic and professional excellence in science, technology and innovation.

1.6 Mission.

To provide high standard training engage in quality research and outreach for social economic information and sustainable development

To develop the human resources capacity at the university.

To increase staffing to optimal levels.

To attract and retain highly qualified staff in core area of the university.

1.7 Research farm section.

Currently, the university under takes research on different areas which are categorized in various farm section and this include; piggery, botanical garden, poultry, aquaculture. Cattle, small ruminants, green house, mushroom, horticulture, orchard, pasture, farm workshop skills, power implements and apiary section

②