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### FACULTY OF AGRICULTURE AND ANIMAL SCIENCE ARAPAI CAMPUS



# INTERNSHIP REPORT CONDUCTED AT NATIONAL CROPS RESOURCES RESEARCH INSTITUTE (NaCCRI) NAMULONGE IN



WAKISO DISTRICT

FROM 1st JUNE 2018- 31ST JULY 2018



**COMPILED BY.** 

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BU/UP/2017/1058

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## INTERNSHIP COURSE NUMBER:DCP 1208 YEAR: 2018.

A REPORT SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION IN PARTIAL FULFILMENT OF THE AWARD OF A DIPLOMA IN CROP PRODUCTION AND MANAGEMENT CONDUCTED FROM 1 JUNE TO 31 July 2018

DATE OF SUBMISSION. 12 09 2018

### DECLARATION

On honest and humble ground I Awor Josephine do solemnly declare myself to have executed the duty of having written this report and I do certain the contents of my industrial training at national crops resources research institute in wakiso district as required which pends the reception of an academic credit award from this magnificent institution of Busitema University Arapai campus

AWOR JOSEPHINE	
Sign	
Date. 27/07/2018	

### INSTITUTE COORDINATOR (NaCCRI)

ACADEMIC SUPERVISOR

NAME: MRS AKURUT IMMACULATE SIGN.....

Date.....

### **DEDICATION**

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I dedicate this great piece of work to my beloved lecturers of the Extension department, supervisors for the technical advice and support my family members especially my mum Mrs. Nachapio Madalina my father Mr. Logwee John Loluk, my lovely Aunt Nyagan Christine, my Uncle Mr. Okello John Bosco, my lovely brother and sisters for their moral and financial support they rendered to me May the Almighty Father bless you abundantly. Special thanks go to Lokuda Jacob Luke for your incredible support, enthusiastic encouragement and commitment to excellence with authentic friendship, May the Almighty Father bless you abundantly.

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### ACKNOWLEDGEMENT

This report has been made possible by the Grace and Love of God, who provided me with the free gift of Life and Knowledge, Wisdom, happiness, Good health and Courage to accomplish the study

I acknowledge and recognize the love, care and financial support of my dear mum Mrs. Nachapio Madalina, for her motherly love and guidance she offered to me, my field coordinator Mrs. Nanteza Winnie and all the staff of NACCRI my academic supervisor, Mrs. Akurut Immaculate and to all the staff of Busitema university Arapai campus for their love and support rendered to me

I wish to take this opportunity to thank my dear Uncles and Aunties for their collaboration in terms of financial support and guidance rendered to me especially Mr. Okello John Bosco May the almighty GOD bless you all and in every day to day life

Last but not by all means least, I wish to acknowledge those who helped me in one way or the other, but have not been mentioned in this report, I do appreciate your valuable contributions in this report.

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### LIST OF ABBREVIATIONS

E.

-	National Agriculture Research Organization
-	National Agriculture and Animals Production Research Institute
-	Busitema University Arapai Campus
·	New Rice for Africa
-	Namulonge Bean
-	Common Bacterial Blight
-	Bean Common Mosaic Virus Disease
-	Sweet Potato Virus Disease
-	Namulonge Sweet Potato
-	Open Pollinated Variety.
~	Single Supper Phosphate.
-	Nitrogen Phosphorous Potassium
-	Indole Butyric Acid
-	Preliminary Yield Trial
-	Rice Yellow Mottle Virus
-	Confined Field Trial

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### ABSTRACT

This Industrial training report contains four chapters which give details of activities and sections that were involved in the programs at NaCCRI. They include Horticulture, cereals, legumes and root crop programs and these are summarized as follows. Chapter one this chapter gives the introduction of NaCCRI location, back ground funding, services offered, competence areas and objectives of the study. Chapter two gives detailed information got from the activities which covers the four programs as mentioned above. In horticulture, we focused on various methods of vegetative propagation in mangoes and tomato production, data collection in cabbage, fertilizer application, effects of different fertilizers on cabbage i.e. organic and the inorganic type's agronomic practices and management practices, pests and disease identification on tomatoes, mangoes and cabbage. Under legume program, we covered beans production, its agronomy, breeding, pathology and its entomology. And in cereal program we covered maize and rice agronomy breeding, pathology and entomology of both cereals. We also covered a number of activities in root crop program i.e. agronomy of both cassava and sweet potatoes, pathology and entomology of both crops as well as breeding of both crops then we closed the field study with students' presentations organized by NaCCRI staff to evaluate whether students understood what they learnt. Chapter three summarizes the skills and knowledge I gained from the different programs, responsibilities undertaken, and influence of the attachment to my future career and correlation of the attachment with the classroom knowledge. Chapter for contains conclusion and recommendation, work plan, organization structure appendices and references.

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#### **CHAPTER ONE**

### **1.0 INTRODUCTION**

#### 1.1 Description of NaCCRI

National crops Resources Research Institute is one of the six public agricultural research institute(PARIS) under the policy ,guidance and coordination of the National Agricultural Research Organization(NARO).NaCCRI is mandated to conduct and carry out research and generate knowledge for the following strategies of crops of great importance to the country , currently root crops like cassava and sweet potatoes, legumes like beans and soybean ,cereals like rice and maize and to sum up horticulture and oil palm are done well.

### **1.2 Location**



**NaCCRI** is located in Namulonge village kiwoko parish, Busukuma sub-county, Wakiso district. It is 27 km from Kampala and 9 km from Gayaza along Gayaza-Zirobwe road. Namulonge is located within bimodal rainfall region, it is 032E of the equator and 32.37E. It is at an elevation of 1150 meters above sea level. It has a tropical wet and dry climate slightly humid conditions. The vegetation is wooded savannah containing tall trees and tall grasses

### 1.3Historical background of NaCCRI

As per the orientation taken us through by the farm manager MR John Robert Kiggundu, he asserted that NaCCRI began as a cotton research corporation as funded by the British in 1945 to investigate the hurdles connected to production of cotton within the British colonies.

It served countries like Kenya, Tanzania, Zambia, Malawi, Swaziland, Nigeria, and to some Extent Gambia and Uganda was chosen to be Regional Centre .The Cotton Research Corporation handed over Namulonge to the Uganda Government in 1972

The Institute continued as Cotton Research station until 1980 when research on the other commodity crops was introduced, the crops introduced include Maize, cassava,

Sweet potatoes Rice soy beans, sunflower Ground nuts, Simsim and wheat in addition to cotton.

