



**CENTRE OF EXCELLENCE IN SUSTAINABLE
AGRICULTURE AND AGRIBUSINESS
MANAGEMENT (CESAAM)**



**CESAAM QUARTERLY NATIONAL STEERING COMMITTEE
REPORTING SEPTEMBER - DECEMBER 2017**

PART I: PRELIMINARIES

1. Name of Institution	Egerton University
2. Name of Africa Centre of Excellence	CENTER OF EXCELLENCE IN SUSTAINABLE AGRICULTURE AND AGRIBUSINESS MANAGEMENT
3. Date of Signing of the Financing Agreement	Date of Signing of the Financing Agreement: 04/07/2016
4. Date of Signing of the Subsidiary (Performance) Agreement	Date of Signing of the Subsidiary (Performance) Agreement: 04/07/2016
5. Date of Credit Effectiveness	01/02/2017
6. Period of Reporting (<i>i.e. September 2017 to December 2017</i>)	From. 01 st September, 2017 to 24 th December, 2017

PART II: IMPLEMENTATION PROGRESS MATRIX

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
DLI #2: Excellence in education and research capacity and development impact	DLR #2.2: Newly enrolled students in the ACE of which at least 20% must be regional (African) students.	2.2.1 Newly enrolled students into Masters level programmes 2017					
		2.2.1.1 Total	25	100%	28	112%	
		2.2.1.2 National Male	10	40%	11	44%	Students successfully commenced class
		2.2.1.3 National Female	6	24%	6	24%	Course work on course
		2.2.1.4 Regional Male	4	16%	7	28%	Semestorial students' progress report prepared and online profiles (Bios, professional interest and interest in research) set up
		2.2.1.5 Regional Female	5	20%	4	16%	Structures for internship created. This includes period for internship, evaluation, reporting and period for internship
		2.2.2 Newly enrolled students into Doctoral level programmes					
		2.2.2.1 Total	19	100%	22	116%	PhD students on proposal development. One has since defended at department. Others set to defend soon. Students engaged actively in seminars to improve quality of research
		2.2.2.2 National Male	7	37%	8	42%	Course work on course
		2.2.2.3 National Female	5	26%	7	40%	Semestorial students' progress report prepared and online profiles (Bios, professional interest and interest in research) set up
		2.2.2.4 Regional Male	4	21%	3	16%	Structures for internship created. This includes period for internship, evaluation and reporting
		2.2.2.5 Regional Female	3	16%	4	21%	
		2.2.3 Newly enrolled students into Short Courses programmes					
		2.2.3.1 Total	0	0	0	0	Proposed Farmers' and Students' short course on Agricultural Value Chain Management planned for

¹ Can include numbered Remarks/Notes per Activity below the Table

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
							April-May, 2018
		2.2.3.2 National Male	0	0	0	0	"
		2.2.3.3 National Female	0	0	0	0	"
		2.2.3.4 Regional Male	0	0	0	0	"
		2.2.3.5 Regional Female	0	0	0	0	"
		2.2.4 Newly enrolled staff into short courses program					
		2.2.4.1 Total	40	100%	35	88%	CESAAM-Virginia Tech C.A.L.S retooling workshop on Research Analytics and Development of Fundable Proposals Successful covered
		2.2.4.2 Egerton & Kenyan ACE staff	25	63%	26	65%	<ul style="list-style-type: none"> • Senior Faculty trained • Leadership and Governance short course for University Management in February 2018
		2.2.4.3 Partner university academic staff	10	25%	7	18%	Apart from 2 facilitators from Virginia Tech CALS, Sokoine, Gulu, University of Rwanda and University of Burundi representatives were also trained.
		2.2.4.4 Private and public-sector staff	5	11%	2	5%	Representatives from BeCA/ILRI and KALRO attended
	DLR#2.3: Accreditation of quality of education programs	2.3.1 Masters level programmes Nationally Accredited	1	100%	1	100%	-1 new additional Msc in Agrienterprise Development Accredited by CUE in June 2017 making it 13 from 12 - Plans underway to develop a new MSc program in Sustainable Agriculture. This is in process of accreditation
		2.3.2 Masters level programmes Regionally	0	0	0	0	-Centre will seek assistance from IUCEA on how to go about this

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
		Accredited					
		2.3.3 Masters level programmes Internationally Accredited	0	0	0	0	Center still seeking accreditation body to assist in this area
		2.3.4 Doctoral level programmes Nationally Accredited	0	0	0	0	-2 programs are currently undergoing international review by CESAAM partner, Virginia Tech. The programs undergoing review include: PhD in Agronomy MSc Livestock Production Systems
		2.3.5 Doctoral level programmes Regionally Accredited	0	0	0	0	
		2.3.6 Doctoral level programmes Internationally Accredited	0	0	0	0	working with international partners namely Virginia Tech, MSU and Nanjing Agricultural University-in China
	DLR#2.4: Partnerships for collaboration in applied research and training	2.4.1 MoUs with public institutions/civil society	8	100%	4	50%	5 MoUs are already signed with international partner universities and local institutions: Virginia Tech, Nanjing, MSU, LSU
		2.4.2 MoUs with private sector/ industry	3	100%	1	33%	Community Action for Rural Development - CARD, Others under consideration include: -Nation Media group on outreach through Seeds of Gold, Association of Manufacturers is at discussion level after a fruitful consultative meeting in November 2017 -Others include EABL
	DLR#2.5: Peer-reviewed journal papers or peer-reviewed	2.5.1 Papers accepted by a peer-reviewed journal with regional author	10	100%	6	60%	-6 papers already published and main authors include Owuor G, Mshenga P.M, Gido E., Okello D.O, Ileri D.M and

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
	conference papers prepared collaboratively with regional or international co-authors	(s)					Kyalo D. -Many other manuscripts are set for submission.
		2.5.2 Papers accepted by a peer-reviewed journal with international author (s)	0	0	0	0	'other publications expected in 2018
		2.5.3 Accepted peer-reviewed conference papers with regional author (s)	0	0	0	0	Other publications expected in 2018
		2.5.4 Accepted peer-reviewed conference papers with international author (s)	0	0	0	0	Planned for year 2
	DLR#2.6: Faculty and PhD student exchanges to promote regional research and teaching collaborations	2.6.1 “Periods” (at least 2 weeks) of Faculty Exchanges within country	0	0	0	0	Planned 2 staff in year 2 with Virginia Tech and Nanjing Agricultural University
		2.6.2 “Periods” of Faculty Exchanges outside country but within region	0	0	0	0	Planned in year 2
		2.6.3 “Periods” of Faculty Exchanges internationally, outside the region	1	100%	3	300%	3 senior faculty staff in the department of Crops, Horticulture and Soils visited Nanjing Agriculture University in Nov-Dec, 2018
		2.6.4 “Periods” of PhD Student Exchanges within country	0	0	0	0	-Plans are currently underway to have an exchange with other Kenyan ACEs to improve quality of training. -Joint supervision is also being sought.
		2.6.5 “Periods”					Planned in year 2

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
		of PhD Student Exchanges outside country but within region0					
		2.6.6 “Periods” of PhD Student Exchanges internationally, outside the region	0	0	0	0	Planned in year 2
	DLR#2.7: External revenue generation	2.7.1 Amount of externally generated US\$ from national sources	0	0	0	0	
		2.7.2 Amount of externally generated US\$1 from regional and international sources	0	0	0	0	Proposal development in collaboration with Viginia Tech on going.
	DLR#2.8: Institution participating in benchmarking exercise	2.8.1 Participation in the Partnership of Applied Sciences, Engineering and Technology (PASET) benchmarking exercises	0	0	0	0	Discussion on going with world bank team to join next round of benchmarking exercise
	DLR#2.9: Centre participation in outreach programs	2.9.1 Farmers trained on sustainable agriculture and agribusiness management	2	100%	2	100%	CESAAM held community outreach visits to Olenguruone on (26/12/2017) and Kinangop (4/01/2018) in preparation for the Agribusiness Clinics and possible farmers field day. Center also held a field day in Ugunja Siaya on

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
							educating farmers on Striga control This was conducted by Center leader and the Dean Faculty of agriculture
		2.9.2 Output of agrosinec Park innovations	1	100%	1	100%	1 innovation ie on new sorghum variety for brewing in collaboration with East African Breweries and is now in the process of being registered for commercialization by Kenya Plant Health Inspectorate Service
		2.9.3 Students supported in agri-enterprise development	3	100%	4	133%	-The centre currently supports 4 MSc Agri-enterprise Development students to establish their business prototypes. -The centre plans a students' entrepreneurship expo for all institutions on higher learning in the region to promote student initiatives
DLI	DLR	Brief Remarks: Positive progress					
DLI#3: Timely, transparent and institutionally reviewed Financial Management	DLR#3.1: Timely Withdrawal Applications supported by interim unaudited financial reports	Financial report for year 1 is to be included under University Financial Reports and internal audit ongoing. Final and comprehensive report will be ready in February 2018.					
	DLR#3.2: Functioning Audit Committee under University Council	In place and holds meetings periodically as in the attached board calendar for 2017/2018					
	DLR#3.3: Functioning internal audit	In place and working under University internal audit which has planned to carry internal audit every quarter. See internal audit calendar in the appendix					

DLI	DLR	Activities	Targets		Achievements		Remarks ¹
			No.	%	No.	%	
	unit for University						
	DLR#3.4: Transparency of financial management (audit reports, interim unaudited financial reports, budgets and Annual Work Programs are all web accessible)	Annual Work plan for July 2017 to June 2018 is on the CESAAM web portal for public access. visit www.cesaamegerton.ac.ke					
DLI#4: Timely and audited Procurement	DLR# 4.1: Timely procurement audit report	-Procurement plan already prepared and shared with World Bank and approved by the university management and is in use as from April 2017.					
	DLR#4.2: Timely and satisfactory procurement progress report	Procurement plan done and in place, and is being used. The quarterly procurement report will be part of the reports to be submitted in February 2018 together with audited financial report					

PART III: APPENDICES

1. Procurement Progress Report
2. Summary of students under CESAAM sponsorship
3. Brief on activities of the last 3 months
4. List of lecturers and their qualifications

1. Procurement Progress Report

Items procured (Works, goods, and consultancies)	Cost (KES)	Procurement request submitted on	Current Status
Office furniture	1,500,000.00		Ongoing
Internet Connectivity	12,340.00		Completed

Motor vehicle	7,726,000.00	23 June 2017	Completed
Computer Desktop	1000,000.00	5 th September, 2017	Ongoing
Laptop computers	900,000.00	5 th September, 2017	Ongoing
iPad	100,000.00	5 th September, 2017	Ongoing
Photocopying machine	200,000.00	5 th September, 2017	Ongoing
Animal science lab equipment's	3,000,000.00		Ongoing
Crop Science Lab equipment's	3,000,000.00		Ongoing
Food science lab equipment's	14,000,000.00		Ongoing
Retooling workshop	2,350,000.00		Completed
ACE Centre design	3,000,000.00		Completed
Students' medical cover	356,700.00		Ongoing
Renovation of graduate students hostel	808,100.00		Completed
Items procured (Works, goods, and consultancies)	Cost	Procurement request submitted on	Current Status
Inception workshop	1,600,000.00		Completed
International air tickets	3,000,000.00		Completed
Fuel and vehicle maintenance	100,000.00		Completed
Advertisement for student recruitment and interviews	300,000.00		Completed
Projector	70,000.00	5th September, 2017	On going

2. SUMMARY OF STUDENTS UNDER CESAAM SPONSORSHIP

2016 and 2017 Students Admissions and Consideration for Support

The center made advertisement for CESAAM courses that have been accredited by CUE in March 2017 with a deadline of 30th April 2017. Both print and electronic media were used as a way of advertising. The result was a total of 923 applicants. The short-listing process was successfully concluded in June 26-27, 2017 through a rigorous workshop composed of all heads of departments and programme coordinators. The tables below show summarized distribution of shortlisted applicants by programmes and country of origin, including gender.

CESAAM 2017 CLASS				
No.	Name	Programme	Gender	Country
1)	CHARITY NGAMAU MBITHE	MSc. AGBM	F	Kenyan
2)	EMMANUEL ALTER ANGELO	MSc. AGBM	M	South Sudan
3)	RICHARD ODUOR	MSc. AGBM	M	Kenyan
4)	OLIVE UWINEZA	MSc. AGBM	F	Rwanda
5)	ABEL MBEGA MWEMBE	MSc. AGBM	M	Kenyan
6)	ERICK OCHIENG	MSc. AGBM	M	Kenyan
7)	NORAH CHEPKIRUI	MSc. AGECE	F	Kenyan
8)	FLORIANE KANONKO	MSc. AGECE	F	Burundi
9)	JEAN CLAUDE NDAYISABA	MSc. AGECE	M	Burundi
10)	JAEL MWANGOE	Msc. Agronomy	F	Kenyan
11)	CHESANG SUMUKWA	MSc. Animal Breeding & Genetics	M	Kenyan
12)	ISABELLE BEATRICE MUKANDUNGUTSE	MSc. Animal Nutrition	F	Rwanda
13)	MESHACK OYOO ODHIAMBO	MSc. Animal Nutrition	M	Kenyan
14)	SAKWA BONIFACE	MSc. Animal Nutrition	M	Kenyan
15)	LILIAN MUTHONI	MSc. Animal Nutrition	F	Kenyan
16)	KILONZI MUTUKU JACKSON	MSc. Crop Protection	M	Kenyan
17)	AMIKORO PACIFIQUE	MSc. Food Science	M	Rwanda
18)	VITALIS KUTO KIPROP	MSc. Food Science	M	Kenyan
19)	EDGAR ATWONGIRE	MSc. Food Science	M	Uganda
20)	CYPRIAN OMONDI SYEUDA	MSc. Food Science	M	Kenyan
21)	EUGENIA WANGECI GAKURU	MSc. Food Science	F	Kenyan
22)	MARTHA WAITHERA KURIA	MSc. Food Science	F	Kenyan
23)	NKURUNZIZA EPHREM	MSc. Horticulture	M	Rwanda
24)	ALBERT N. FRANCIS	MSc. Livestock Production Systems	M	Tanzania
25)	REAGAN ANGUWE	MSc. Livestock Production Systems	M	South Sudan
26)	CHUMO SHADRACK KIPNGETICH	MSc. Soil Science	M	Kenyan

27)	ZAKAYO PATRICK	MSc. Animal Nutrition	M	Kenyan
28)	GODLIEVE NYIRAHATEGERIMANA	MSc. Soil Science	F	Rwanda
29)	IBRAHIM NYARIKI	PhD AGBM	M	Kenyan
30)	PURITY KINYA KABURU	PhD AGBM	F	Kenyan
31)	MUGENZI PATRICE	PhD AGBM	M	Rwanda
32)	PHILOMON LANGAT	PhD AGECE	M	Kenyan
33)	JOHANA NYANJONG OYUGI	PHD AGECE	M	Kenyan
34)	LYNETTE AKIDI	PhD AGECE	F	Uganda
35)	SEMENI NGOZI MUSA	PhD AGECE	F	Tanzania
36)	JANE ATIENO ODERO WAITITU	PhD Animal Science	F	Kenyan
37)	MARIE FRANCOISE MWABONIMANA	PhD Animal Science	F	Rwanda
38)	NJOGU NANCY WATHIMU	PhD Crop Protection	F	Kenyan
39)	AMOS ODONGO OTIENO	PhD Food Science	M	Kenyan
40)	JAMES ODERO OBAR	PhD Food Science	M	Kenyan
41)	LINNET WANJIRU MWANGI	PhD Food Science	F	Kenyan
42)	LILIAN OKIRA AUMA	PhD Plant Biotechnology	F	Kenyan
43)	NICHOLAS KIPSANG	PhD Plant Breeding	M	Kenyan
44)	HEZEKIAH KORIR	PhD Soil Science	M	Kenyan
45)	JEANINE UWANYIRIGIRA	PhD Soil Science	F	Rwanda
46)	JOHN NDUNGU NGANGA	PhD. Agronomy	M	Kenyan
47)	VIRATE JEPKOSGEI	PhD. Food Science	F	Kenyan
48)	LAWRENCE AKIDI	PhD. Food Science	M	Uganda
49)	JUDITH C. ROTICH	PhD Animal Science	F	Kenyan
50)	ROBERT MWEZIGWA	PhD Animal Science	M	Ugandan

CESAAM 2016 CLASS				
No.	Name	Programme	Gender	Country
1.	KINYA CAROLYNE NYAGUTHII	MSc. Food Science	F	Kenyan
2.	CATHERINE NDUNGU	MSc. Animal Breeding & genetics	F	Kenyan
3.	LINNET KERUBO OGATO	MSc. Crop Protection	F	Kenyan
4.	DORA ACHIENG OPONDO	MSc. Food Science	F	Kenyan
5.	HILLARY ODECH INDIGO	MSc. Food Science	M	Kenyan
6.	ALOO MAURINE ATIENO	MSc. Horticulture	F	Kenyan
7.	DAMARIS LIRIA KAGENDO	MSc. Horticulture	F	Kenyan
8.	IKAAL MAURICE AMURIA	MSc. Livestock Production Systems	M	Kenyan
9.	LEAH NASIMIYU	MSc. Plant Biotechnology	F	Kenyan
10.	ISAIAH OKUKU ALERI	MSc. Plant Breeding	M	Kenyan
11.	COLLINS WASONGA NYAWADE	MSc. Plant Breeding	M	Kenyan
12.	PETER CALEB OTIENO	PhD Horticulture	M	Kenyan

13.	CAROL MWENDE MUTUA	PhD Horticulture	F	Kenyan
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SUMMARY OF STUDENT SPONSORSHIP

CLASS 2017							
	MASTERS			PhD			SUMMARY
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MSc & PhD
NATIONAL	11	06 (35%)	17	08	07 (47%)	15	Male: 29 (58%)
REGIONAL	07	04 (36%)	11	03	04 (51%)	07	Female: 21(42%)
TOTAL	18	10 (36%)	28	11	11 (50%)	22	SUB-TOTAL: 50

CLASS 2016							
	MASTERS			PhD			SUMMARY
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MSc & PhD
NATIONAL	04	07 (64%)	11	01	01 (50%)	02	Male: 05 (38%)
REGIONAL	0	0	0	0	0	0	Female: 08 (62%)
TOTAL	4	7	11	1	1	2	SUB-TOTAL: 13
							TOTAL: 63

CESAAM STUDENTS PER DEPARTMENT						
2017 CLASS						
	MSc			PhD		
Department	Total	Female (%)	Regional (%)	Total	Female (%)	Regional (%)
Crops, Horticulture and Soils	6	40%	40%	6	50%	17%
Animal Sciences	8	25%	43%	4	75%	20%
Agricultural Economics and Agribusiness Management	9	44%	30%	6	43%	43%
Dairy Food Science and Technology	6	33%	29%	5	40%	29%
		Mean: 36%	Mean: 36%		Mean: 52%	Mean: 27%
TOTAL	29			21		
					Sub-Total	50
2016 CLASS						
	MSc			PhD		
Department	Total	Female (%)	Regional (%)	Total	Female (%)	Regional (%)
Crops, Horticulture and Soils	6	67%	-	2	50	-
Animal Sciences	2	50%	-	-	-	-
Agricultural Economics and Agribusiness Management	-	-	-	-	-	-
Dairy Food Science and Technology	3	67%	-	-	-	-
		Mean: 61%	-		Mean: 50%	-
TOTAL	11			2		
					Sub-Total	13
					TOTAL	63

STUDENTS WHO ABANDONED THE SCHOLARSHIP

No.	NAME	DEPARTMENT	DEGREE	COHORT	COUNTRY	REASON
1.	JOHNSON KYALO MWOVE	DAFTEC	PhD	2017	KENYAN	Got DAAD Scholarship in JKUAT
2.	EDITH MUWAWA MNYAZI	ANSCI	PhD	2017	KENYAN	scholarship in Canada
3.	BERNARD BWUBASTE	DAFTEC	PhD	2017	RWANDESE	Got employed

4.	KOROS CLARICE JEPCHIRCHIR	DAFTEC	MSc.	2017	KENYAN	Unknown reason
5.	JOHN MARUBE ISAAC	DAFTEC	MSc.	2016	KENYAN	Unknown reason
6.	JOYCE WAITHIRA KINYANJUI	DAFTEC	MSc.	2017	KENYAN	Unknown reason

Note: Plans will be put in place to compensate affected departments in the next admissions

2. BRIEF SUMMARY ON PAST ACTIVITIES FOR THE PERIOD SEPTEMBER 2017 – DECEMBER 2017

1. Kenyan ACE Inception Workshops

CESAAM Held its inception in July 2017. The Inception Workshop or otherwise launch of CESAAM took place on 20th July, 2017 at Masada Hotel in Naivasha Kenya. The meeting, which brought together representatives from all collaborating universities except from University of Rwanda and University of Burundi. During the meeting, there was representation from University of Juba, Gulu University, Virginia Tech, Michigan State University and Sokoine University. Other institutions and private sector partners included KEPHIS, ICRISAT, Kenya Seed, Green Forest Foods and CARD. The Centre also sent representatives to Moi University Inception on 21/08/2017 and subsequently JOOUST's Inception in October 2017.

2. ACE II Kigali Meeting

The VC Egerton University, DVC Research and Extension and Centre Leader represented CESAAM during a consultative meeting for ACE II in Kigali Rwanda. This was a universities-private sector partnership meeting that was meant to foster robust working relationships between Centres of Excellence and private partners. CESAAM private sector partner – Community Action for Rural Development (CARD)- also attended.

3. CESAAM Staff Recruitment

CESAAM placed advertisements for Assistant Project Manager and Administrative Assistant positions. The process was competitive and the said members of staff have been on duty from 1st November, 2017. Successful candidates were Mr. Dickson Ouma Otieno (Assistant Project Manager) who also serves as Communications and M&E officer and Paul Kahenya Muthoni (Administrative Assistant) who is also the in charge of ICT.

4. ACE I and ACE II Consultative Meeting in Ghana – 7th – 9th November, 2017

This meeting, attended by the DVC R&E, Centre Leader, Deputy Centre Leader and the CESAAM Accountant was held in Ghana. This technical and advisory meeting in Ghana discussed among other things university and industry partnerships, networking, learning from ACE I projects, graduate tracer studies and proper reporting. The meeting provided a challenge to new centres to strictly follow their procurement and annual work plans to enhance efficiency in running of centres.

5. Nanjing Agriculture University (NAU) visit

On 4th December, 2017, a delegation from NAU including their Vice President Prof Hu Feng visited CESAAM as a follow-up to an MoU earlier signed between Egerton University and NAU. Important discussions then ensued on how this relationship can be strengthened and the visit ended with a meeting with CESAAM-Sponsored Students.

6. Upgrade of student hostels

CESAAM played a key role in refurbishing River Side Blocks A and B where CESAAM-Sponsored foreign students stay. These hostels are secure and equipped with modern amenities. All these are aimed at maintaining international standards at the halls of residence for post graduate students (both PhD and MSc).

7. Retooling workshop

CESAAM in partnership with Virginia Tech organized a retooling workshop that took place in Morendat Hotel in Naivasha from 27/11/2017 to 1/12/2017. The 5-day workshop was on Research Analytics and Development of Fundable Proposals and had 35 attendees drawn from Egerton Faculty and partners from University of Burundi, University of Rwanda, Gulu University, Sokoine University in Tanzania and University of Juba-South Sudan. In Kenya, Partners who participated are Kenya Agricultural Research Organization, Beca ILRI.

8. 2017 Africa Materials Research Society Conference in Gaborone Botswana from 11-14 th December

Prof Josephine Ouma, a CESAAM Core Team Member represented the centre during this conference where she made a brief presentation on CESAAM. Several prospective partnerships were discussed during this conference.

9. Website Rebuilding

The centre website (cesaamegerton.ac.ke) is operational under Egerton University . Various features such as students' profiles have since been created to share insights into students' professional and academic interests, partners, audited financial report among other activities. The centre is also in the process of coming up with a farmers' magazine that will be written by students in partnership with their supervisors. The centre is also in the final stages of producing its quarterly newsletters.

10. System Establishment for Agribusiness Clinics and Agrienterprise Development

CESAAM has planned for outreach programs to farmers and young agri-preneurs. This is a move aimed at engaging students in community outreach programs for direct benefit to the community. 2 reconnaissance visits to Olenguruone (26/12/2017) and Kinangop (4/01/2018) have since been made in preparation for the Agribusiness Clinics and possible farmers field day.

11. Authors' Workshop on Publishing with Science Direct

CESAAM hosted a team from Elsevier Africa on 16/01/2018 who met over 220 participants (both post graduate students and staff). The visit by Elsevier was aimed at promoting quality research among students and faculty as a major CESAAM objective.

5. LIST OF LECTURERS AND ACADEMIC QUALIFICATIONS FOR EACH ACADEMIC PROGRAMME UNDER THE ACE II PROJECT.

1. DEPARTMENT OF ANIMAL SCIENCE

	NAME	Highest qualification	Current position	Area of specialization
1	J. K. Tuitoek	PhD	Professor	Animal nutrition
2	S. A. Abdulrazak	PhD	Professor	Animal nutrition
3	A.K. Kahi	PhD	Professor	Breeding and genetics
4	I. S. Kosgey	PhD	Professor	Breeding and genetics
5	B. O. Bebe	PhD	Professor	livestock systems
6	A. Y. Guliye	PhD	Associate Professor	Animal nutrition
7	P. K Migwi	PhD	S/Lecturer	Animal nutrition
8	A. M. King'ori	PhD	S/Lecturer	Animal nutrition
9	M. K. Ambula	PhD	S/Lecturer	Animal nutrition
10	J. O. Ondiek	PhD	S/Lecturer	Animal nutrition
11	P. A. Onjoro	PhD	Lecturer	Animal nutrition
12	T. Muasya	PhD	Lecturer	Breeding and genetics
13	K.Ng'eno	PhD	Lecturer	Breeding and genetics

2. DEPARTMENT OF AGRICULTURAL ECONOMICS & AGRIBUSINESS MANAGEMENT

No.	Name	Highest Qualifications	Current Position	Area of specialisation
1	George Owuor	PhD	Associate Professor	Agribusiness Management & Quantitative Methods
2	Margaret Ngigi	PhD	Associate Professor	Agricultural Marketing
3	Gideon Obare	PhD	Professor	Production Economics

4	Benjamin K. Mutai	P.h.D	Associate Professor	Research Methods and Agricultural Finance
5	Job Lagat	PhD	Associate Professor	Environmental Economics and Climate Smart Agriculture
6	Patience M. Mshenga	PhD	Associate Professor	Agribusiness Management and Agri-enterprise Development
7	J K Langat	PhD	Lecturer	Agribusiness Management
8	Isaac Kariuki	PhD	Senior Lecturer	Agricultural Policy
9	Hillary. K. Bett,	PhD	Lecturer	Value Chains analysis
10	Mary C. Maina	PhD	Senior Lecturer	Farm Management and Co-operative Development
11	Edith Gathungu	PhD	Lecturer	Agribusiness in Organization Management
12	Oscar Ingasia Ayuya	PhD	Lecturer	Quantitative methods in Resource Economics
13	Kibet H.	PhD	Senior Lecturer	Macro-Economics
14	Kiprop . K	PhD	Lecturer	Micro-Economic Theory and Applications
15	Sambili K.	PhD	Senior Lecturer	Economic Development
16	Mary Mathenge	PhD	Lecturer	Agricultural Policy
17	Milton Ayieko	PhD	Lecturer	Agricultural Marketing

3. DEPARTMENT OF CROPS, HORTICULTURE & SOILS

No	Name	Education	Current Position	Area of specialization
1.	L.M. Mumera	Ph.D	Professor	Plant physiology
2.	F.M. Itulya	Ph.D	Professor	Vegetable science
3.	G. Liu	Ph.D	Professor	Greenhouse technology
4.	L. N. Nakhone	Ph.D	Associate Professor	Soil Chemistry
5.	A.O. Musandu	Ph.D	Associate Professor	Soil Nutrition
6.	S.F.O. Owido	Ph.D	Associate Professor	Soil Physics
7.	D.K. Isutsa	Ph.D	Professor	Tissue culture
8.	J.O. Ogendo	Ph.D	Associate Professor	Crop protection
9.	C.M. Ndirangu	Ph.D	Associate Professor	Plant breeding
10	A.W. Kamau	Ph.D	Associate Professor	Entomology

11	A.M. Kibe	Ph.D	Associate Professor	Agronomy
12	J.P.A. Ouma	Ph.D	Associate Professor	Agronomy/Crop Physiologist
13	E.K. Cheruiyot	Ph.D	Associate Professor	Agronomy/ Crop Physiologist
14	P.K. Kimurto	Ph.D	Associate Professor	Agronomy/ Crop Physiologist
15	R. J. Birech	Ph.D	Associate Professor	Seed science/Organic Agriculture
16	J.G. Nyaanga	Ph.D	Lecturer	Entomology
17	J.O. Owuoche	Ph.D	Snr Lecturer	Plant breeding
18	P.C. Korir	Ph.D	Lecturer	Agronomy/Plant breeding
19	P. Murerwa	Ph.D	Lecturer	Crop protection
20	M. Mwangi	Ph.D	Snr Lecturer	Floriculture
21	J.N. Wolukau	Ph.D	Snr Lecturer	Fruit Science
22	R.M.S. Mulwa	Ph.D	Associate Professor	Biotechnology
23	R.M. Gesimba	Ph.D	Snr Lecturer	Fruit Science/fruits post harvest/ physiology & Technology
24	J.O. Ogweno	Ph.D	Associate Professor	Stress physiology/Indigenous vegetables
25	A.M. Opiyo	Ph.D	Snr Lecturer	Vegetable Post harvest
26	M. Saidi	Ph.D	Snr Lecturer	Vegetable Crop Protection
27	S.M. Mwonga	Ph.D	Associate Professor	Soil fertility
28	N.W. Mungai	Ph.D	Associate Professor	Soil Microbiology
29	J.J. Ndemo	Ph.D	Senior Lecturer	Soil fertility
30	Maurice Edwards Oyoo	Ph.D	Lecturer	Plant breeding/ Biotechnology
31	Pascal Ojwang Okwiri	Ph.D	Lecturer	Plant breeding/ Biotechnology
32	Samuel Odeyo Nyalala	Ph.D	Snr Lecturer	Ornamental Horticulture
33	Miriam K Charimbu	Ph.D	Lecturer	Crop Protection

4. DEPARTMENT OF DAIRY, FOOD SCIENCE & TECHNOLOGY

Name of Staff	Current Position	Highest Qualification	Areas Of Specialization
1. Symon M. Mahungu, PhD	Professor of Food Chemistry, Egerton University	PhD [Food Science] - Food Chemistry	Food Chemistry Edible Fats and Oils Processing and Analysis
2. Abdul K. Faraj	Associate Professor	PhD. Food Science and Technology	Food Science and Technology, Cereal Chemistry and Technology, Food Safety Management Systems

3. Joseph W. Matofari	Associate Professor	PhD. Food Science	Microbial Food safety, Microbial biotechnology,
4. John Masani Nduko	Lecturer	PhD. Biotechnology and Macromolecular Chemistry	Microbial Biotechnology, Microbiology, Protein Engineering
5. Patrick S. Muliro	Senior Lecturer and chair of department	PhD. Food Science	Dairy Science and Technology, Food Quality Assurance and Quality Management Systems
6. Mary N. Omwamba	Senior Lecturer	PhD. Food Science	Food chemistry, Food Analysis, Product Development,
7. Christopher M. Mutungi	Lecturer	PhD. Food Science	Food Science and Technology, Food Engineering, Postharvest Technology
8. Penina N. Ngoda	Lecturer	PhD	Food product development, Evaluation of endocrine disruptive potential and risk assessment of phytoestrogens in food
9. Lillian A. Gogo	Lecturer	PhD. Food Science	Food Science: Food Safety and Hygiene; Food Quality Assurance
10. Joseph Ochieng Anyango	Lecturer	PhD Food Science/ Food Chemistry	Food Science and Technology ; Food Fortification and Sensory Evaluation; Cereal Protein; Chemistry; Development of Protein Bioplastics/Biomaterials