


REPUBLIC OF KENYA



*Enhancing Accountability*

# REPORT

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**THE AUDITOR-GENERAL**

**ON**

**JOMO KENYATTA UNIVERSITY OF  
AGRICULTURE AND TECHNOLOGY**

**FOR THE YEAR ENDED  
30 JUNE, 2020**

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**JOMO KENYATTA UNIVERSITY  
OF  
AGRICULTURE AND TECHNOLOGY**



**ANNUAL REPORT AND FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED  
JUNE 30, 2020**



**REPUBLIC OF KENYA**



**JOMO KENYATTA UNIVERSITY OF  
AGRICULTURE AND TECHNOLOGY**

**ANNUAL REPORT AND FINANCIAL STATEMENTS FOR  
THE YEAR ENDED  
JUNE 30, 2020**

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**Prepared in accordance with the Accrual Basis of Accounting Method under the International Public  
Sector Accounting Standards (IPSAS)**

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**Jomo Kenyatta University of Agriculture and Technology**

P.O. Box 62000 - 00200 Nairobi, Kenya

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## KEY UNIVERSITY INFORMATION AND MANAGEMENT

### A) BACKGROUND

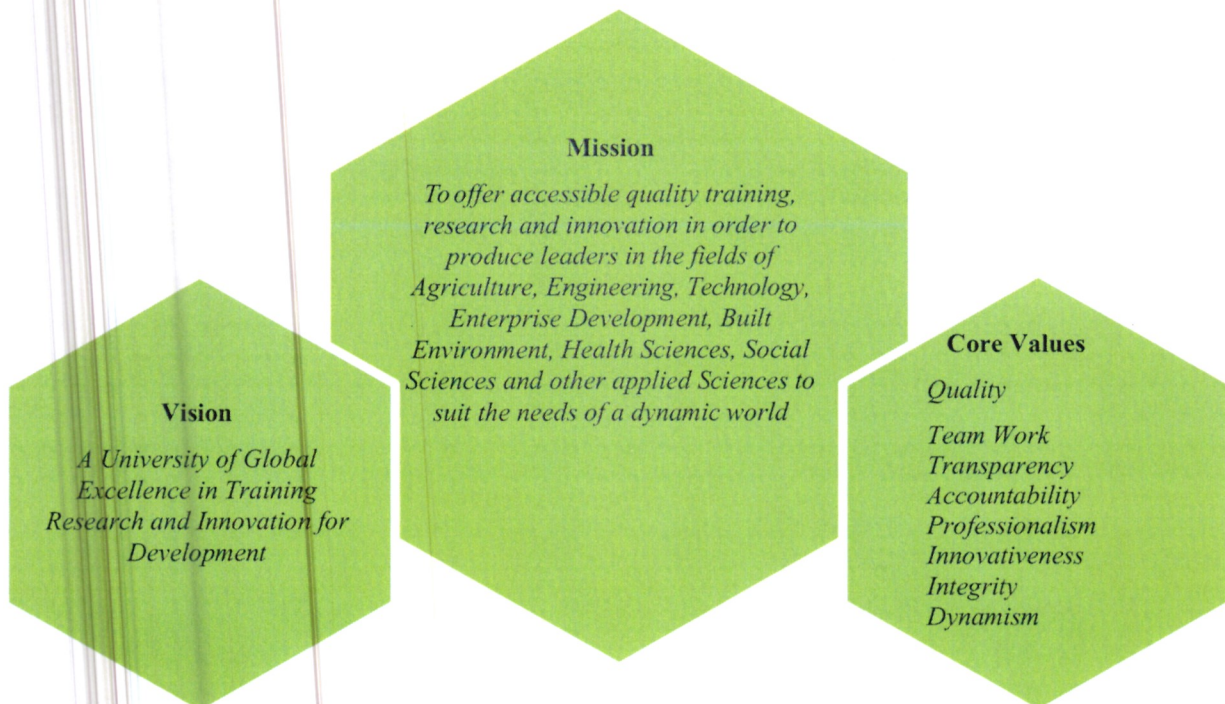
Jomo Kenyatta University of Agriculture and Technology is situated in Juja, 36 kilometres North East of Nairobi, along Nairobi-Thika Highway. It was started in 1981 as a Middle Level College (Jomo Kenyatta College of Agriculture and

Technology (JKCAT)) by the Government of Kenya with the generous assistance from the Japanese Government. Plans for the establishment of JKCAT started in 1977. In early 1978, the founding father of the nation, Mzee Jomo Kenyatta donated two hundred hectares of farmland for the establishment of the college. The first group of students were admitted on 4th May 1981. H.E. Daniel Arap Moi formally opened JKCAT on 17th March 1982. The first graduation ceremony was held in April 1984 with Diploma Certificates presented to graduates in Agricultural Engineering, Food Technology and Horticulture.

On 1<sup>st</sup> September 1988, H.E. Daniel Arap Moi, declared JKCAT a constituent College of Kenyatta University through a legal Notice, under the Kenyatta University Act (CAP 210C). The name of JKCAT officially changed to Jomo Kenyatta University of Agriculture and Technology (JKUCAT). It was finally established as a University through the JKUAT Act, 1994 and inaugurated on 7th December 1994.

### B) PRINCIPAL ACTIVITIES

The principal activities of the University are set out in its mission and vision statements stated below



**C. PRINCIPAL PLACE OF BUSINESS**

Jomo Kenyatta University of Agriculture and Technology Juja

P.O. Box 62000-00200, Nairobi

Other JKUAT Campuses are located in Nairobi CBD, Karen, Mombasa CBD, Nakuru, Kisii, Kitale, Kakamega and Eldoret.

**D. REGISTERED OFFICE**

Jomo Kenyatta University of Agriculture and Technology

P.O. Box 62000-00200, Nairobi

**E. BANKERS**

Kenya Commercial Bank Ltd

Moi Avenue

P.O. Box 30081-00100, Nairobi

National Bank of Kenya Ltd

P.O. Box 93-00232, Ruiru, Kenya

Standard Chartered Bank Ltd

P.O. Box 98683-80100, Nairobi

Barclays Bank Kenya , Barclays Plaza

P.O. Box 46661, Nairobi

Co-operative Bank of Kenya Ltd

Ngong Road,

P .O Box 19555-00202, Nairobi

Equity Bank Ltd

Thika Plaza,

P.O Box 253-01000, Thika

Fundilima Sacco Society Ltd

P.O. Box 62000-00200, Nairobi

Ecobank Kenya

P. O. Box 49584-00100, Nairobi

**F. AUDITORS**

Auditor General

Anniversary Towers, University Way

P. O. Box 30084-00100, Nairobi

**G. ADVOCATES**

Lutta & Lutta Advocates

P.O. Box 73705-00200, Nairobi

## H. KEY MANAGEMENT

The University's day-to-day management is under the following key organs:

- i) Vice-Chancellor's Office
- ii) Administration Division
- iii) Academic Division
- iv) Finance Division
- v) Research, Production and Extension Division

## I. FIDUCIARY MANAGEMENT

The key management personnel who held office during the financial period ending 30 June 2020 and who had direct fiduciary responsibility were:

S/No	Designation	Name	Functions
1.	Vice Chancellor	Prof. Victoria Wambui Ngumi	She is the chief executive and therefore the academic and administrative head of the university with the overall responsibility for the organization and administration of institution's programmes. The VC who chairs Senate and University Management Council is responsible to Council for the general conduct and discipline of students and staff
2.	Deputy Vice Chancellor (Administration)	Prof. Benard Ikua	Is responsible for corporate planning, staff recruitment, training of administrative staff, promotions and discipline, personnel administration, health care services, registry administration, transport, and central services.
3.	Deputy Vice Chancellor (Academic)	Prof. Robert Kinyua	Is responsible for all student's affairs, including; admissions and records, and welfare.
4.	Deputy Vice Chancellor (Finance and Planning)	Prof. Bernard Otoki Moirongo (Up to September 2019) Prof Jackson Kwanza (Acting from January to June 2020)	Responsible for financial Administration and Management, Infrastructure Development, Planning, Procurement, and Asset Maintenance and Management.
5.	Deputy Vice Chancellor (Research)	Prof. Mary Onyango Abukutsa	Co-ordinates research, production and extension activities which include co-ordination of exhibitions, workshops and seminars; soliciting for research funds, and production and extension. The division also facilitates income generating activities, as well as managing the Jomo Kenyatta Academy.

## THE UNIVERSITY COUNCIL

### **Ambassador (Eng.) Mahboub Maalim Mohamed** **Chairperson of the University Council.**

Ambassador (Eng.) Mahboub Maalim Mohamed was appointed on Friday, October 16, 2020, by His Excellency, President Uhuru Kenyatta through a *Gazette Notice* No. 10759/2019 to Chair the Council of Jomo Kenyatta University of Agriculture and Technology (JKUAT). Amb Mahboub will serve the Council up to November 7, 2022.

Born in 1958, Amb. Mahboub, served in various positions both locally and internationally.



He is a registered engineer with Kenya's Engineers Registration Board (ERB) and a member of the Institute of Engineers of Kenya. He has served in various senior positions including District Project Coordinator for World Bank Financed Drought Recovery Project in the arid areas of Kenya, and Deputy National Project Coordinator of Arid Lands Resource Management Project. Additionally, he has served as one of the Board of Directors of Kenya Power before he rose to become its Chairman.

The former Ambassador also served as Permanent Secretary in the Ministry of State for Special Programmes in the Office of the President, and the Ministry of Water and Irrigation. He was the longest serving Executive Secretary, Director and Ambassador of the Intergovernmental Authority on Development (IGAD). He also served in various positions in the World Bank.

**Dr. Gumato Ukur Yatani.**

**Immediate Former Chairperson of the University Council (November 2019 – October 2020)**



Dr. Gumato Ukur Yatani, served as the Chairperson of the Jomo Kenyatta University of Agriculture and Technology between November 8, 2019 and October 16, 2020. The PhD holder (Gender and Diversity Management) from Vienna University of Economics and Social Sciences, has been at the forefront in fighting for the rights of minorities and marginalized groups in Kenya. She has served as the convener of the Minorities and Marginalized Department at the National Gender and Equality Commission where she also worked as a Commissioner from April 11, 2013.

Dr. Gumato who is the founder of the Kanacho Nomadic Educational Foundation since 2009, a charitable foundation that addresses education and rural poverty challenges in northern Kenya, holds an MBA in Human Resource Management from the University of Nairobi, and a Bachelor of Education degree from Moi University.

**Prof. Victoria Wambui Ngumi**

**Vice Chancellor and Secretary to the University Council**

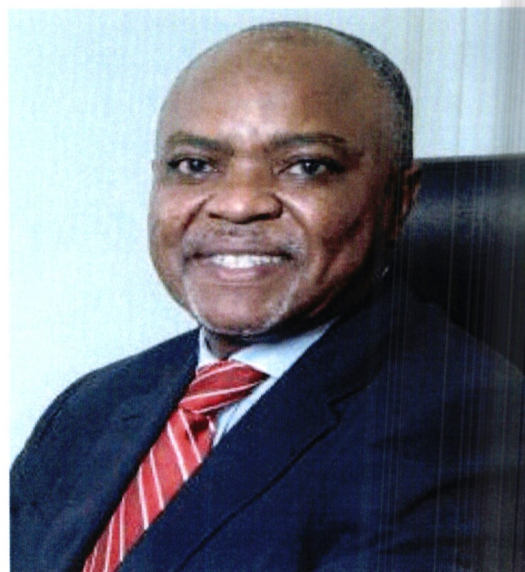
Prof. Ngumi, is a beneficiary of the prestigious Fulbright scholarship that took her to Clemson University, South Carolina, USA, earning her a PhD degree in Plant Physiology in 1997. She had earlier won another Japan based Mombusho scholarship, that enabled her to pursue a Master of Science degree in Botany at Hiroshima University, successfully graduating in 1989. She is an alumna of the University of Nairobi where she obtained an undergraduate degree in Education.



She also holds an Executive MBA from JKUAT. The Vice Chancellor who is a member of the African Biotechnology Stakeholders Forum (ABSF) and the Natural Products Research Network for East and Central Africa (NAPRECA), served as a senior education fellow at the African Network of Agro-forestry and Natural Resource Management Education.

### **Thomas Mshindi Nyamacha**

Mr. Thomas Mshindi Nyamacha, a long serving and renowned Journalist with experience spanning over 25 years in the media industry, joins JKUAT Council as a member. Popularly known in the media industry by his peers as Tom Mshindi, the veteran scribe has served in various roles; as a journalist, Editor-in-Chief, and later, Managing Editor of the Daily Nation Newspaper, Managing Director of Monitor Publications Ltd (Uganda), Managing Director of Nation Newspapers Division and Chief Operating Officer.



Before joining the Nation Media Group, Mshindi worked as the Group Chief Executive Officer of The Standard Group (2003 – 2006), as well as serving twice as the Vice Chair of the Media Owners Association. He served as Council member of the University of Nairobi from March 2005 to March 2008. He also worked at UNICEF as a Communications Manager and Editor, serving in New York and West Africa. Mshindi, who is currently a Consulting Editor and Writer under Blue Crane Global, has specialized in Newsroom transformation to mobile-first Operations, Content Development, Strategic Management, Project Planning and Implementation, Human Resources, Media Management, Communication and Editorial Consultancy. He holds a Bachelor's degree, Literature in English, Political Science (Honours), Postgraduate Diploma in Mass Communication (Communication/Journalism), both from the University of Nairobi. He also holds an Advanced Management Programme (Management and Leadership) and an Advanced Management Programme (Arts, Entertainment, and Media Management) from the IESE Business School, University of Navarra, Spain.

### **Gabriel K. Lengoiboni**

As he exited the Teachers Service Commission (TSC) where he served for ten years at the helm, Mr. Gabriel Lengoiboni said he would remain actively involved in the improvement of the education sector. His utterances came to pass on Friday, November 8, 2019 with his appointment to join JKUAT Council, as a member. The soft-spoken career administrator who spent 30 years working in public service, is credited with the transformation of TSC, among others, overseeing the repeal of the TSC Act to conform to provisions of the new Constitution. He also left a legacy while serving as Principal, Maralal High School when he



stimulated students in both 'O' and 'A' levels to end up registering a string of splendid performances. Mr. Lengoiboni holds, a Bachelor of Science Education from the University of Nairobi and a Master of Science from the London School of Economics and Political Science. Prior to his appointment at the helm of the TSC, Mr. Lengoiboni served as Senior Deputy Director of Education in charge of universities at the then Ministry of Education, Science and Technology. He also worked as the Education Attaché in India between 1994 and 1999 under the Foreign Affairs Ministry.

Having served in various capacities within the legal profession in a career spanning over 10 years, Mr. Joseph Gitonga M. M'Aciuru, an astute lawyer, brings to the University Council, extensive professional work experience gained from state corporations, legal tribunals and boards. Mr. Gitonga holds a Master of Science in Business Administration in Strategic Management from University of Nairobi, Diploma in Law from the Kenya School of Law and a Bachelor of Legal Laws from University of Nairobi. He is member of the Institute of Certified Public Secretaries (2004) and he is a certified Commissioner for Oaths and Notary Public since 2006.

### **Mr Joseph Gitonga M. M'Aciuru**



Mr. Gitonga has served on a number of boards as a member and chaired several Audit, Risk and Governance Committees at the National Transport and Safety Authority, Law Society of Kenya. He also served at Kisii and Pwani Universities as a Council member. He played an instrumental role in successfully carrying out

investigations on many judges and magistrates ranging from the Court of Appeal to resident magistrates over a period of 4 years. The lawyer has also served at the Attorney General Chambers, Directorate of Public Prosecutions at State Counsel, giving legal opinion, legal advice and prosecution in anti-corruption, economic crimes, serious fraud and asset forfeiture section.

**Mrs. Winnie A. Omondi**



Mrs. Winnie A. Omondi Adhiambo, currently pursuing her PhD degree in Data Analytics at the University of Nairobi, majoring in Information Systems, is a Systems Analyst. With vast experience spanning over 30 years, Mrs. Omondi started her professional journey in 1987 when she joined ZIBA Management and Services between 1987 and 1988 as a Trainee Programmer. She later joined the Agricultural Finance Corporation (AFC) where for twelve years between 1989 and 2002, rose from the positions of a Junior Programmer, Senior Programmer, Analyst Programmer and later, Senior Systems Analyst. Between 2002 and 2004, Mrs. Omondi joined Post Bank

as a Senior Systems Analyst, before being deployed to the bank's ICT Department where she worked for 11 years as the Assistant Manager and Business Systems Analyst. Between 2016 and 2018, Mrs. Omondi who is also a member of the Computer Society of Kenya, among other membership bodies, was an Assistant Lecturer at the Technical University of Kenya. She later left to join Oxford Policy Management Limited (UK) in February 2018, where she serves as a consultant. Mrs. Omondi whose hobbies include; reading, mentoring young adults, charity work and community service, holds a Masters degree in Business Administration (Strategic Management option), and Bachelor of Commerce (Management Science option), both from the University of Nairobi. She also holds a Diploma in Computer Science from Kenya Polytechnic. The Council Member has undertaken several projects related to her career and attended several trainings, workshops and seminars both locally and internationally.



**Dr. Salome W. Gichura**

Dr. Salome W. Gichura holds a PhD in Education Management from Coventry University, UK, a Masters degree in Education Administration (Kenyatta University), a Bachelor of Education degree (Hons) majoring in Literature and English (University of Nairobi) and a Certificate in Education Administration and Planning (IIEP, UNESCO, PARIS) in addition to other professional development certificates. Dr Gichura previously served as a Commissioner with the Teachers Service Commission (TSC). Other than providing strategic leadership and policy formulation at the Commission she was the Chair of the Human Resource

Committee, a member of the Finance Committee and a member of Strategy and Innovation Committee. Dr Gichura was also responsible for overseeing the implementation of the Management study (2016- 2021) whose aim was to restructure the Human Resource at the Commission with a view to aligning the commission to its new mandate as a Constitutional Commission. She also acted as the Chairperson of the Commission from August 2013 to December 2014. Before being appointed as a Commissioner, Dr Gichura served as the Director of Higher Education in the Ministry of Education, Science and Technology where she was responsible for coordination of Governance in all public Universities in Kenya. She has had un-interrupted career in the education sector spanning over forty years. Dr Gichura has also served in the Diplomatic Service as the Education Attaché for Kenya in the UK (Dec 2004-July 2010) where she gained valuable knowledge on internationalization of Higher Education. She has served as a coordinator and secretary of various task forces and committees on Education and Training that have developed policies which have shaped the Education Sector in Kenya. Dr Gichura has vast experience in strategic management, policy formulation and implementation at National, Regional and International levels. She has also served as the Secretary General of the Forum for African Women Educationalists (FAWE) Kenya Chapter. In recognition of this illustrious and dedicated service to the development of the education sector in Kenya. Dr Gichura received recognition and was awarded the Head of State Commendation, Order of the Golden Warrior (OGW) in 2010.

## UNIVERSITY COUNCIL UP TO NOVEMBER 2019

### **Prof. Paul Njuki Kanyari**

**Former Chair to The University Council.**



Paul Njuki Kanyari, is a Professor of Veterinary Parasitology at the University of Nairobi. He has expansive teaching, research and administrative experience, and several publications. Between July and October 2012, Prof. Kanyari served as Acting Principal, Embu University. From 2004 to 2008, he also served as Dean, Faculty of Veterinary Medicine, University of Nairobi.

Prof. Kanyari earned his Bachelor's degree in Veterinary Medicine and Master's degree in Veterinary Pathology, Microbiology and

Parasitology all from the University of Nairobi, between 1975 and 1982. He then proceeded for his PhD in Parasitology at University of Queensland, Australia where he graduated in 1989.

### **Prof. Victoria Wambui Ngumi**

**Vice Chancellor and Secretary to the University Council**



Prof. Ngumi, is a beneficiary of the prestigious Fulbright scholarship that took her to Clemson University, South Carolina, USA, earning her a PhD degree in Plant Physiology in 1997. She had earlier won another Japan based Mombusho scholarship, that enabled her to pursue a Master of Science degree in Botany at Hiroshima University, successfully graduating in 1989. She is an alumnus of the University of Nairobi where she obtained an undergraduate degree in Education.

She also holds an Executive MBA from JKUAT. The Vice Chancellor who is a member of the African Biotechnology Stakeholders Forum (ABSF) and the Natural Products Research Network for East and Central Africa (NAPRECA), served as a senior education fellow at the African Network of Agro-forestry and Natural Resource Management Education.

**Dr. Eng. John M. Mativo**



Dr. John Mativo is a registered civil engineer (ERB, MIEK) with over 20 years' experience in structural engineering research, design and construction supervision and contract management. He earned his PhD in Civil Engineering from Tokyo Metropolitan University, Japan, in 2007 and a Master of Engineering in Structural Engineering from Tongji University, China in 1999. Previously, he worked with Ministry of Roads and Public Works; and H.P. Gauff Consulting Engineers. Dr. Mativo has a number of peer reviewed publications.

**Ms. Njoki Kahiga**



Ms. Njoki Kahiga brings to the Council an expansive experience covering strategic planning, policy formulation, budgeting and financial management. A Human Resource Development practitioner and trainer, Njoki currently serves as a Commissioner with Kenya Law Reform Commission. Previously, she served as Acting Permanent Secretary in the former Ministry of State for Public Service and member of the Advisory Council of Strathmore Business School. She holds a Master of Science in Human Resource Management from the University of Salford, United Kingdom.

**Eng. John K. Tanui**



Eng. John Tanui is the current CEO of Konza Technology Development Authority. A registered telecommunications engineer, Tanui joins his contemporaries at the varsity top management organ, bringing along over 17 years of professional and work experience in the areas of operations management, engineering delivery and turnkey projects management. Mr. John Tanui earned his undergraduate in Electrical and Communications Engineering from Moi University and a Master of Business Administration from the University of Nairobi. He is currently pursuing his doctorate degree in Global Business Management from the University of Nairobi.

**CPA Maurice O. Onyango**



Mr. Maurice Odhiambo Onyango brings to the Council over 25 years' practical accounting, audit and tax management experience. A target driven professional, Maurice served as General Manager, Finance and Administration with the National Water Conservation and Pipeline Cooperation between 2010 and 2013. He is currently a Partner at Menya and Associates Certified Public Accountant, Tax Management Consultant. The CPA (K) holder earned his B.Com degree from Jabalpur University, India in 1989 and an MBA degree in Finance from Leeds University, United Kingdom in 1996.

**CPA Bertha Dena**



CPA Bertha Joseph Dena is an astute accountant with a wealth of experience spanning 27 years. Prior to her appointment, Ms. Dena has served in various organizations including the Stagecoach Bus Services, AIG Global Investments and PineBridge Investments East Africa in different capacities. The Netherlands trained and United States International University don also serves on the Councils of several institutions including Kenya Ports Authority, and Information Communications Technology Authority. She is also a member of the Institute of Certified Accountants of Kenya and Institute of Certified Public Secretaries of Kenya.

**Mrs. Felister Kivisi Rep. CS, National Treasury**



Mrs. Felister Kivisi, the Alternate to the Cabinet Secretary, National Treasury, has over twenty years' experience in the civil service and is deployed in the Public Debt Management Office in the National Treasury. She is currently the Senior Deputy Director of Debt Management acting as a Director in the same office. She has served on the founding Council of Kenya Electricity Transmission Company (KETRACO) and the Council of Industrial Development Bank (IDB) as alternate to the Principal secretary of National Treasury. Currently she also serves on the Advisory Council of the Women Enterprise Fund. She holds a Bachelor of Arts degree in Government and French (UoN) and Master of Arts degree in International Relations from University of Leeds, and is currently pursuing a PhD in International Relations (USIU).

## OFFICERS OF THE UNIVERSITY

### Officer

**Prof Joseph Mathu Ndung'u**

**Chancellor**



### Details

#### Qualifications

PhD (Glasgow)

CorrFRSE (Corresponding Fellow of the Royal Society of Edinburgh)

BVM (Nairobi)

**Prof. Victoria Wambui Ngumi**

**Vice - Chancellor**



#### Qualifications

EMBA (JKUAT)

MBA (ESAMI),

Ph.D. (Clemson),

M.Sc. (Hiroshima)

B.Ed. (Nairobi)

**Prof. Jackson K. Kwanza,  
Ag. Deputy Vice Chancellor (Finance)**

(Up to June 2020)



#### Qualifications

Ph.D. (JKUAT)

M.Sc. (Kenyatta)

B.Ed. (Kenyatta)

EMBA (MUA)

**Prof. (Arch.) Bernard O. Moirongo  
Deputy Vice Chancellor (Finance)**

(Up to October 2019)



#### Qualifications

Ph.D. (Tu-Graz)

M.A. (Nairobi),

B.Arch.(Nairobi)

**Prof. (Eng.) Bernard W. Ikuu  
Deputy Vice Chancellor (Administration)**



#### Qualifications

Ph.D. (Tottori)

M.Sc. (Tottori)

B.Sc. (Nairobi),

**Officer**

**Prof. Robert Kinyua**

**Deputy Vice Chancellor (AA)**



**Details**

**Qualifications**

Ph.D. (Osaka)  
M.Sc. (Nairobi)  
B.Sc. (Nairobi)

**Prof. Mary Abukutsa**

**Deputy Vice Chancellor (RPE)**



**Qualifications**

Ph.D. (Nairobi),  
M.Sc. (Nairobi)  
B.Sc. (Germany),  
EBS

**Dr. Rose Ndegwa**

**Ag. Registrar (Administration)**



**Qualifications**

PhD (JKUAT),  
MBA (Kenyatta),  
B.A. (Kenyatta),

**Dr. Patrick Mbindyo**

**Ag. Registrar (RPE)**



**Qualifications**

Ph.D. (Witwatersrand)  
M.Sc. (London School of Economics)  
B.A. (Kenyatta)

**Dr. Esther T. Muoria**

**Registrar (AA)**



**Qualifications**

Ph.D. (JKUAT)  
M.A., (Nairobi)  
B.A. (Nairobi)

**CPA Mary Ngugi**

**Ag. Finance Officer**



**Qualifications**

MBA (Kenyatta)  
B.Comm. (Kenyatta)  
CPA (K), FA







**Dr. (Rev.) James Wakaba Kimani,**

**Dean of Students**



**Qualifications**

PhD (San Francisco)  
M. A (Theology)  
B.A (Nairobi)

Officer	Details
<p><b>Dr. Jack Busalile Mwimali</b>  <b>Ag. Principal, JKUAT Karen Campus</b>                      (Up to June 2020)</p>	<p><b>Qualifications</b>                      Ph.D. (Birmingham)                      LLM (Lund)                      Post Graduate Dip. (KSL)                      BAL, LLB (Mysore)</p>
	
<p><b>Prof. Jackson K. Kwanza</b>  <b>Principal, JKUAT Karen Campus</b>                      (Up to January 2020)</p>	<p><b>Qualifications</b>                      Ph.D. (JKUAT)                      M.Sc. (Kenyatta)                      B.Ed.(Kenyatta)                      EMBA (MUA)</p>
	
<p><b>Prof. Mike Iravo</b>  <b>Ag. Principal, JKUAT Westlands Campus</b></p>	<p><b>Qualifications</b>                      Ph.D., (JKUAT)                      M.Ed., (Nairobi)                      B.A (Romania),                      PGD (Kenyatta),                      Dip. Mgt (London), ,</p>
	
<p><b>Prof. (Eng.) Hiram Nderitu</b>  <b>Ag. Principal, CoETEC</b></p>	<p><b>Qualifications</b>                      Ph.D. (JKUAT)                      M.Sc. (JKUAT)                      B.Sc. (JKUAT),</p>
	
<p><b>Prof. David M. Mulati</b>  <b>Principal, College of Pure and Applied Science</b></p>	<p><b>Qualifications</b>                      Ph.D. (Kyoto)                      M.Sc. (Kenyatta),                      B.Ed. (Kenyatta)</p>
	
<p><b>Prof. Elegwa Mukulu</b>  <b>Principal, College of Human Resource Development</b></p>	<p><b>Qualifications</b>                      Ph.D. (Illinois)                      M.A. (Michigan State)                      B.A. (Nairobi)</p>
	

**Officer**

**Prof. Haroun N. K. Mengech**  
**Principal, College of Health Sciences**



**Details**

**Qualifications**

MD (Linkoping)  
MRC Psych. (UK)  
MBCChB (Nairobi),  
DPM (Dundee), EBS

**Prof David Mburu**

**Principal, College of Agriculture and Natural  
Resources**



**Qualifications**

PhD Agric. Engineering (JKUAT)  
MSc Agric. Engineering (Nairobi)  
PGD Soil Conservation (Nairobi)  
BSc (Nairobi)

**Dr. Ruth Mugo,**  
**Ag. Chief Medical Officer**



**Qualifications**

MPH (Nairobi)  
MBCChB. (Nairobi)

**Dr. Roselyne Mang'ira,**  
**University Librarian**



**Qualifications**

PhD (Moi)  
M.Sc (Loughborough)

## **CHAIRPERSON OF THE UNIVERSITY COUNCIL'S REPORT**

I am glad to present the University's annual report and financial statements for the year ended June 30, 2020. The report highlights the University's operational and financial performance as well as our strategic direction.

As a Public University, Jomo Kenyatta University of Agriculture and Technology (JKUAT) continues to play its role in helping Kenya achieve its developmental goals through offering quality training, research and innovation. The University has over the years offered training at various levels to meet the growing needs of Kenyans and beyond. The University continues to reposition its main brands within the context of market requirements, customers' satisfaction and cost rationalization. The need to meet these objectives over the years has remained the central focus of the University Council.

In the wake of the recent Covid-19 pandemic, JKUAT was able to successfully unveil solar powered ventilators to be used by the Covid-19 patients. The University also produced hand sanitisers and masks for use in the protection against the pandemic. Additionally, students from the Pan African University were able to invent a solar powered hand washing station. I wish to applaud all these efforts put in to fight the scourge.

Jomo Kenyatta University in collaboration with the Government of Kenya and other development partners is keen on developing her learning and research infrastructure. Some of these infrastructural developments include: The Agriculture Laboratory Building funded by JICA, the ongoing Administration Block and the College of Engineering and Technology Building. The completion of these projects will ease pressure on the existing learning and research facilities. Despite these efforts the University still requires support to implement other infrastructural projects envisaged in the 2018 – 2022 Strategic Plan.

Additionally, the University is keen on attracting and retaining qualified human resource to maintain high quality standards in training, research and innovation. To this end, the Management continues to support staff training both locally and abroad. Currently, we have 87 members of staff pursuing graduate studies. In addition, various staff have recently been promoted. Also, the 2017-2022 internal Collective Bargaining Agreement (CBA) negotiations are underway and it is hoped that this will be completed soon. I appreciate the Government for the recent conclusion of the national CBA. These measures will go a long way in motivating our members of staff.

I wish to report that the University performance contract for the period 2018-2019 was evaluated and moderated recently. The University attained an overall score of 'Very Good' compared to 'Good' in the previous year. I commend all staff for their commitment in meeting the set targets. In the same breath, the University has signed the 2019-2020 performance contract with the Government. The realization of our

national development goals is anchored on the quality of teaching, research and leadership in our universities, a role JKUAT has played significantly well. I wish to recognise the University's efforts to leverage on research, innovation and entrepreneurship for sustainable development. I wish to particularly acknowledge the contributions by JKUAT researchers in enhancing food security through agricultural innovations such as the snail and cricket farming, and the portable urban greenhouses, among others. These will go a long way in supporting sustainable farming activities in urban and rural households. JKUAT has over the years been providing extension services to the agricultural sector and also enhances capacity of Young Farmers and secondary school agriculture teachers on the use of modern farming techniques to promote food security.

In the same breath, I wish to recognise JKUAT for her contribution towards development of innovations and dissemination, a role that has elevated the country's ranking in Africa. This has made Kenya competitive in the region due to the capacity for creation, adoption and innovation, making it rank second only to South Africa as an innovation giant. The recent facilitation and support towards the successful national census which is commendable, is an attestation to this fact.

### **Challenges**

The University continues to face acute financial constraints. This is attributable to the declining enrolment in the self-sponsored programmes and inadequate funding that does not match the increasing number of government sponsored students. To alleviate this situation, the University has embraced internal cost cutting measures such as freezing recruitment except in critical areas. I therefore urge the Government to fully implement the differentiated unit cost funding model as this will ease the financial challenges.



**AMB. ENG. MAHBOUB MAALIM MOHAMED**  
**CHAIRPERSON OF THE UNIVERSITY COUNCIL**

## VICE CHANCELLOR'S REPORT



I hereby present the Annual Report and Accounts for Jomo Kenyatta University of Agriculture and Technology (JKUAT) for the year ended 30 June 2020.

In the year 2019/2020, the University submitted a budget of Kshs.12.2 billion to the Ministry of Education for consideration and approval. The budget comprised of Recurrent Estimates of Kshs.5.005 billion from Appropriation In Aid and Development Estimates of Kshs.1.665 billion. In the same year, the University received Government grants amounting to Kshs. 3,493,984,116 which consisted of recurrent grant of Kshs.2,946,175,255 and development grant refunds of Kshs.81,484,446. The government grants however, were far below our budget submissions. The University on its part generated Kshs.3.23 billion which was below the targeted Appropriation In Aid of Kshs.5.0 billion.

In the year under review, JKUAT celebrated the academic accomplishment of 4,739 graduands of which 4,075 were undergraduates, 567 masters and 97 doctorates drawn from both JKUAT and PAUSTI. These graduands have been subjected to stringent training requirements as stipulated by the University Senate, the Commission for University Education and other regulatory bodies. I therefore attest that the graduands have been equipped with quality relevant skills, knowledge and work ethics in their various disciplines, in line with Kenya's national development priorities. In complementing the Government's Universal Healthcare pillar, the University released 30 new graduands from JKUAT's School of Medicine. This cohort will be the first for medical doctors to graduate with Bachelor of Medicine and Bachelor of Surgery. I am pleased to report that this intensive curriculum was set by various stakeholders among them, the regulator, Kenya

Medical Practitioners and Dentist Council. A number of graduands from the Business Computing cohort have already been offered attractive opportunities in local and international organizations. Further, I am equally pleased to inform you that the University recently reaffirmed her position in the region by attaining the Commonwealth Association of Architects accreditation for three of her programmes in the School of Architecture and Building Sciences.

For two consecutive years, JKUAT has remained the most preferred institution for students joining university. This is confirmed by the 2019-2020 Kenya Universities and Colleges Central Placement Services intake where 5,901 students were admitted into various programmes. This is a 5% increase over the 2018-2019 admissions. This preference, however, comes with challenges as it puts pressure on the existing facilities required for teaching and training, especially in science, engineering and technology courses. I note with concern that the current mode of financing does not take full cognizance of these challenges, resulting in inadequate funding of the programmes. I therefore urge the Ministry of Education to expedite implementation of the differentiated unit cost model and also increase capitation allocated to the University.

Sound research remains a vital component in institutions of higher learning. In this regard, JKUAT has made concerted efforts to continually leverage on research, innovation and entrepreneurship for sustainable development. The recently concluded 14<sup>th</sup> JKUAT International Scientific Conference provided a platform for researchers and innovators to showcase their research outputs that not only address the development needs of the country's "Big Four", but also Africa's Agenda 2063. I wish to appreciate the National Research Fund, JICA, Eclat Remote x, Proquest South Africa, Emerald Publishing Ltd, South Africa and Law Publishers, India for their sponsorship.

Low levels of intellectual property awareness in African universities has led to massive loss of revenue due to poor or non-existent frameworks for intellectual property and asset management. In mitigation, the World Intellectual Property Organization in collaboration with African Regional Intellectual Property Organization (ARIPO) commissioned the development of guidelines that aim at supporting universities, research and development organizations in Africa. I am pleased to note that JKUAT was one of the five competitively selected institutions among 45 that expressed interest to pilot the implementation of the guidelines in the 19 ARIPO Member States.

The University places great emphasis on the role of quality training, research and innovation in the realization of the country's Vision 2030 and the Big Four Agenda. Accordingly, the University conducted a three-day foundry training workshop in conjunction with the Central Metallurgical Research and Development Institute of Egypt. The training was aimed at initializing long term collaborations between the

University, the Institute and the Foundry Industry with a view to establishing a Center of Excellence. Once established, the Centre will offer training in Welding, Foundry, Material Sciences, and other skills critical to the realization of the manufacturing agenda. Further, JKUAT is collaborating with BOSCH, a German multinational engineering and technology company to train the youth on developing, establishing and operating businesses in technical fields using powered tools. It is projected that this will reduce youth unemployment and increase productivity in target sectors.

In addition, the University, in partnership with Kenya Airport Parking Services (KAPS) is equipping two laboratories in Big Data and Next Generation Technology. The laboratories will enhance joint research between the two institutions on intellectual property and asset management, and commercialization of innovations by academia.

On food security, the University is engaged in capacity building on nixtamalization, a process proven to remove up to 97% of aflatoxins from contaminated cereals. Besides, the University has supplied close to one million fruit tree seedlings and African indigenous vegetables seed packets to 273 farmers in 26 counties after training. Another related initiative is the ongoing construction of a modern agricultural demonstration zone. Once completed, the Chinese Academy of Sciences funded research hub, will serve as a modern agricultural technologies transfer platform. It will also promote research on new and improved crop varieties.

In healthcare, the University in collaboration with World Vision Kenya is engaged in a research programme on Water and Sanitation Hygiene. The project dubbed, *babyWASH* aims at improving the health and well-being of mothers and children in the resource-constrained areas of Meto, Longuso and Manyatta in Kajiado County. Quality research remains an integral part of our country's and indeed the world's development. It is on this premise that JKUAT continues to invest in the research capacity of her faculty. This is evidenced by the many research outputs and innovation exhibitions showcased during this year's agricultural shows and trade fairs. I am particularly happy with the stellar performance by our university at the Central Kenya Agricultural Show, the Mombasa International Show, and the Nairobi International Trade Fair.' Besides these awards, the University has received many other accolades in the recent past. We applaud the various members of staff whose contribution has placed the University's name in the global scene. Further, I commend two of our students, who were recently recognized by international organizations. Leah Wambui Njau, a Bachelor of Science in Horticulture student, was selected ambassador by "*Thought for Food Foundation*". This is an initiative which works towards finding new solutions to global food and agriculture challenges. On the other hand, Delphine Nyaboke, a student pursuing Bachelor of Science in Electrical and Electronic Engineering won the Italy-based *GOlab Ambassador for Inclusion 2019 edition*.

In disseminating its research findings, the University continues to translate its outputs and innovations into tangible products. This is demonstrated by the role JKUAT played during the just concluded population and housing census where a total of 97,466 digital devices were assembled for use during the enumeration exercise. Additionally, the University emerged top in seven categories in the Central Kenya Agricultural Society Show, and two categories in the Nairobi International Trade Fair, among other awards. Some of the notable awards included; Best Stand in Research and Development, Best Stand Embracing Information Technology and Communication Systems, University with the Best Stand and Best Innovation and Invention Stand. I take this opportunity to salute all the researchers, innovators and exhibitors for their contribution towards this achievement.

Likewise, our students and alumni continue to make significant impacts in society through outstanding scientific innovations and community service. Recently, JKUAT emerged the best amongst 12 Kenyan universities at the 2019 Public Relations Society of Kenya Student Boot Camp that brought together journalism, public relations and mass communication students. Similarly, Gladys Ng'etich, a JKUAT alumni, who completed her PhD in Aerospace Engineering at the University of Oxford, won the prestigious *Schmidt Science Fellow Award*. The need for adequate security within the University and its environs cannot be over-emphasized. It is therefore unfortunate that the University's operations were recently disrupted by student protests triggered by insecurity around Juja. The University is working with the local community and other stakeholders in finding lasting solutions to this problem, I urge security agents in Juja to enhance their operations to avert this challenge. I am glad to note that there have been consultative forums bringing together the university community, security agencies and other stakeholders with the aim of exploring ways to arrest the rising cases of insecurity. Some of the key resolutions made include: use of police patrols, installation of lights in key areas and formation of a security networking group to enhance information sharing. Nonetheless I urge our students to embrace dialogue and patience when raising their grievances.



**PROF. VICTORIA WAMBUI NGUMI, Ph.D.**

**VICE CHANCELLOR**

## **STATEMENT OF PERFORMANCE AGAINST PRE-DETERMINED OBJECTIVES**

### **Status of strategy implementation**

Jomo Kenyatta University of Agriculture and Technology has four strategic pillars and objectives within its Strategic Plan for the FY 2018/2019- 2022/2023.

These strategic pillars are as follows:

Pillar 1: Financial Planning, Budgeting and Management

Pillar 2: Financial Information System

Pillar 3: IGU Financing and Management

Pillar 4: Infrastructure Development and Management

The strategic pillars were broken down into twenty four (24) strategic objectives which are linked to activities, results and/or outcomes. The objectives focus on improvements necessary for the University to create and deliver value to her customers and stakeholders. They are action oriented and give an outline of what the University will be doing to attain competitive advantage and succeed in discharging her mandate. Key Performance Indicators (KPI's) were identified for each of the objectives to enable the University monitor the implementation of this Plan. The University achieved its performance targets set for the FY 2019/2020 period for its strategic pillars, as indicated in the diagram below:

**Pillar 1: Financial Planning, Budgeting and Management.**

**Strategic Objective:** Optimizing financial resources in support of the academic and research plans while ensuring appropriate stewardship of the resources and maintaining a risk profile that is aligned to the Strategic Plan and Government development agenda

Strategies	Activities	Key Performance indicators	Achievements
Undertaking a five year financial planning, budgeting and forecasting in line with JKUAT Strategic Plan and government MTP III (2018- 2022)	Annual financial planning, budgeting and forecasting plan	Approved financial, planning, budgeting and forecasting COUNCIL	Improved and needs based planning and budgeting cycle
Preparation of JKUAT Medium Term Expenditure Framework (MTEF) to assist in management & monitoring of expenditure	JKUAT MTEF III (2018-2022) prepared	Approved JKUAT MTEF III (2018-2022)	Efficient financial planning and management
Ensuring that JKUAT MTEF III is cascaded to all divisions, departments and campuses	Cascade to Divisional JKUAT MTEF III (2018-2022)	The Approved Divisional MTEF III (2018-2022)	Effective financial management in the departments
Ensuring that the budgets for all divisions, departments and campuses are aligned to Strategic Plan and resource mobilization strategy	Divisional bud- gets aligned with the strategic plan	Annual budgets approved	Improved financial projections and harmonized and improved planning budgeting focused
Coordinating internal and external auditing and ensuring proper implementation of the recommendations provided	Internal and external audits undertaken	Internal and external audit recommendations implemented	Proper control and management of finances
Reviewing and institutionalizing financial management standards and systems pertaining to budgeting, systems and controls, budgets analysis, budget processing and reporting	Financial systems and processes on budgeting, financial controls, budgets analysis and reporting reviewed	100% Compliant with financial management systems	Revised financial systems and processes and reports
Undertaking risk assessments, mitigation planning, implementation and progress monitoring Undertaking financial monitoring, evaluation and reporting	Financial risk assessment, mitigation systems and reporting institutionalized	Financial risk reduced per year	Financial risk mitigation
Reviewing and implementing the monitoring , evaluation and reporting systems in line with Strategic Plan	Financial monitoring, evaluation and reporting systems institutionalized	100% compliant to financial monitoring, evaluation and reporting	Financial monitoring, evaluation and reporting systems

**Strategic Objective: Transforming FMIS to continually reduce redundancies, increase efficiency and expand capabilities for offering quality financial services to the students, stakeholders and staff.**

Strategies	Activities	Key Performance Indicators	Achievements
Review and implement financial management information policies and procedures	Financial management information policies and procedures revised	100% compliance with FMIS policies and procedures	Improved and harmonized financial information systems
Review and institutionalize FMIS systems and processes at all levels in line with best practices to enhance efficiency and effectiveness in operations and service delivery	FMIS Institutionalized at all levels	Fully Integrated ERP	Efficient FMIS operations
Increase efficiency in the management of student services, human resources, payroll, financial and facility resources and information through enterprise software solutions	Enterprise software institutionalized at all levels	100% increase in efficiency	Increased ERP operational efficiency
Develop and implement operational query tools for data analysis and reporting to strengthen operation and guide decision-making	Operational query tools developed and implemented	Timely quarterly financial data analysis and reporting	Improved analysis and reporting
Develop a website through which staff may suggest new ideas for reducing cost, improving efficiency and generating new revenue and institutional problem solving	suggestion website on improvement of FMIS	Timely feedback on FMIS improvement	Reduced cost and improved efficiency
Conduct backup planning for all servers and FMIS hosted by university	Back up capacity Hosted	Operational backup for FMIS	Improved Back-up

### Pillar 3: IGU Financing and Management

**Strategic Objective: Enhancing innovative financing, management and sustainability of IGUs as business cost centres**

Strategies	Activities	Key Performance Indicators	Achievements
Aligning IGU model with entrepreneurship model	IGU entrepreneurship model	Entrepreneur- ship model incorporated in all IGUs	Improved IGUs output
Establishing mechanisms for financing intellectual property, patenting and innovation	Strategies and systems for financing IPs and innovation	5% of research & innovation budget allocated towards IPs and innovation financing.	Increased in- come from patented innovations
Ensuring that the preparation of income generating projects is a mandatory requirement for performance and staff mobility at all levels	Entrepreneurial best practices for supporting IGUs	Entrepreneur- ship best practices incorporated in all IGUs	Profitable IGUs
Ensuring that IGU financing is linked to JKUAT MTEF and Re- source Mobilization Strategy	IGU strategic plans and bud- gets	IGU Strategic Plan aligned with JKUAT MTEF	Effective financial management of IGUs

### Pillar 4: Infrastructure Development and Management

**Strategic Objective: Provide adequate, safe and secure space and facilities for the benefit of University stakeholders**

Strategies	Activities	Key Performance Indicators	Outcome
Upgrade and expand existing physical facilities and infrastructure to provide secure working environment	Adequate physical facilities for secure working environment	20% upgrading and expanding physical facilities and infrastructure per year	Up graded physical facilities, and infrastructure
Partner with industry players to build standardized tuition blocks and recreation facilities	Customized tuition blocks and recreation facilities	Completed Tuition Blocks in Main Campus, Kenyatta Rd, Keiyan, Karen, Likuyani, Mombasa	Improved learning and teaching environment
Ensure clean, safe and adequate water supply	Clean, safe and adequate water supplied	Clean and safe water supplied as per standards- Water Act CAP 372, and Environmental Management and Co-ordination (Water Quality) Regulations, 2006	Enhanced safety and health of the university community
Increase parking areas and tarmac access road to SAJOREC	Parking area and tarmac roads access to SAJOREC	Access roads improved and parking spaces increased	Ease of movement and improved working environment
Commission new 3 boreholes, enhance water harvesting, storage and purification	Boreholes, water harvesting and storage facilities	New boreholes, water harvesting and storage facilities	Adequate water supply to the university
Build a boundary wall around the university Main campus and improve lighting to enhance security.	Build a boundary wall around the University Main campus and improve lighting to enhance security	Construct the Boundary wall, lighting, CCTV and Access Control	Secure environment for university community and properties

## I. STATEMENT ON CORPORATE GOVERNANCE AND ETHICS



### OVERVIEW

The Jomo Kenyatta University of Agriculture and Technology Council understands that Corporate Governance is critical for the achievement of the University's mission and vision. The Council recognizes that it has overall responsibility for the governance of the University and is committed to providing strategic direction, oversight, the necessary support and advice to management. The Council is committed to high standards of Corporate Governance and ethical behaviour characterized by effective and responsible leadership, accountability, fairness, probity and integrity, transparency, efficiency and effectiveness. The Council is responsible for the governance of the University and is accountable to the citizens of this country for ensuring that the University complies with the law and maintains the highest standards of corporate governance, academic standards and ethics.

The Council attaches great importance to the need to conduct the activities and operations of the University with integrity, fairness and transparency. The Principal Secretaries to National Treasury and Ministry of Education are represented. The Vice- Chancellor is the Secretary to Council.

## **Responsibility of the University Council**

The University Council is ultimately responsible for;

- a) The mission and vision of the University;
- b) Promoting the aims and objectives of the University;
- c) Setting strategic directions for the University;
- d) The appointment and performance management of the Vice Chancellor;
- e) Oversight of management;
- f) Setting and monitoring broad budget and planning framework, ensuring that the University finances are sound, and taking major financial decisions;
- g) Monitoring University performance against strategic objectives;
- h) Setting and critically monitoring Council policy and risk management;
- i) Extending links and communication between the University and the wider Community;

## **Remuneration of University Council members**

Council members are paid taxable sitting allowances as approved by the Chief of Staff and Head of the Public Service following guidelines from the State Corporations Advisory Committee. The Chairman is paid honoraria at a rate approved by the Government. Transport expenses are reimbursed on travel for Council business at the prevailing AA rates. The members are also entitled to outpatient and inpatient medical cover and a personal accident cover as applicable.

## **University Council meetings**

The meetings of the University Council are held at least once every quarter in a calendar year. In order to facilitate the smooth running of its affairs, the University Council establishes such committees with membership and with such terms of reference as it may deem fit. A calendar of University Council and its committees is prepared before the beginning of each financial year.

## **Council Committees**

The following are the Council Committees

### **1. Executive Committee**

The Executive Committee of Council sets the agenda for the full council and attends to all urgent and emergency issues.

The roles of the Executive Committee are to:

- a) Develop and review Terms and Conditions of Service for the Vice Chancellor and Deputy Vice Chancellors, and
- b) Dispense with urgency matters that require immediate attention in the best interest of the University.

## **2. Finance Committee**

The committee critically scrutinizes the budgets and other financial requirements before they are presented to the full council. It oversees the University's financial affairs on behalf of Council; develops strategies to guide the growth of the University and monitors its implementation;

## **3. Sealing Committee**

This is an ad-hoc Committee of Council that was established to undertake the following functions;

- a) Review Charter and Statutes of the University from time to time;
- b) Review and recommend to Council all documents requiring authentication with the seal of the University;
- c) Review and recommend to the Council various corporate policies to assist in the overall management of the University;
- d) Receive and recommend to Council for approval qualified students to be conferred with degrees and awarded diplomas and certificates of the University that the Senate may refer to the Committee;
- e) Consider and make recommendations to the Council for the conferring of such titles as Emeritus Professor and Honorary degrees on candidates who meet the established criteria; and
- f) Receive, consider and recommend to Council any other matters concerning other forms of recognition which the Senate may refer to the Committee.

## **4. Building Committee**

The Building Committee is responsible for the management of the University building projects including:

- a) The establishment of project planning groups
- b) The approval of plans and budgets for development expenditure
- c) The monitoring of progress in construction and liaison with architects, quantity surveyors, etc.
- d) General supervision of campus development including such issues as use of planning and location of buildings.

## **5. Human Resource Management Committee**

This committee advises the University Council on all human resource matters including recruitment and staffing.

## 6. Audit Committee

JKUAT Council aspires to use the public resources at its disposal in an efficient and accountable manner. In line with the Treasury Circular No. 16/2005, an audit committee was established to provide independent advice and assurance on the University's strategy, performance and compliance to the different statutes. The committee is required to:-

- a) Review and report to the Council on the comprehensiveness, reliability and integrity of internal controls measures;
- b) Recommend to the Council quality assurance and standards needed to provide effective monitoring of processes; monitor and recommend to Council action in respect of the University's management of risks;
- c) Consider, review and recommend to the Council policies in respect to management and control systems on internal business processes, including accounting policies, anti-fraud and whistleblowing;
- d) Consider and approve annual audit plans including any audit reviews that the Council may request from time to time;
- e) Consider and advise the University Council on matters relating to the security of the University, staff and students; and
- f) Review and advise the Council on all matters relating to the risk management framework and internal audit function of the University

The Council nominates the Chairman of each Council Committee.

The members of each committee are as shown below

**a) Executive Committee**

<b>Appointed Members:</b>	<b>1. Amb. (Eng.) Mahboub Maalim Mohamed – Chair</b>
	2. Dr. Salome Gichura, OGW
	3. Mr. Gabriel Longoiboni, EBS, CBS
	4. Mr. Thomas N. Mshindi
	5. Mrs. Winnie Omondi
	6. Mr. Joseph M. Gitonga
<b>Principal Secretary</b>	7. P. S, Ministry of Education
	8. C.S, National Treasury
<b>Ex-officio Member</b>	9. Vice-Chancellor

**b) Finance Committee**

<b>Appointed Members:</b>	<b>1. Mr. Thomas N. Mshindi - Chair</b>
	2. Dr. Salome Gichura, OGW
	3. Mr. Gabriel Longoiboni, EBS, CBS
<b>Principal Secretary</b>	4. P.S Ministry of Education
	5. C.S, National Treasury
<b>Ex-officio Member</b>	6. Vice-Chancellor

**c) Building Committee Membership**

<b>Appointed Members:</b>	<b>1. Mr. Gabriel Longoiboni, EBS, CBS – Chair</b>
	2. Mr. Joseph M. Gitonga
	3. Mr. Thomas N. Mshindi
<b>Principal Secretary</b>	4. P.S, Ministry of Education
	5. C.S, National Treasury
<b>Ex-officio Member</b>	6. Vice-Chancellor

**d) Audit Committee****Membership:**

<b>Appointed Members:</b>	<b>1. Mr. Joseph M. Gitonga – Chair</b>
	2. Mrs. Winnie Omondi
<b>Principal Secretary</b>	3. P.S, Ministry of Education
	4. C.S, National Treasury
<b>Secretary</b>	5. Chief Internal Auditor

**e) Human Resource Management Committee****Membership:**

<b>Appointed Members:</b>	<b>1. Mrs. Winnie Omondi - Chair</b>
	2. Dr. Salome Gichura, OGW
	3. Mr. Gabriel Longoiboni, EBS,CBS
<b>Principal Secretary</b>	4. P.S, Ministry of Education
	5. C.S, National Treasury
<b>Ex-officio Member</b>	6. Vice-Chancellor

**f) Sealing Committee****Membership:**

<b>Appointed Members:</b>	<b>1. Amb. (Eng.) Mahboub Maalim Mohamed – Chair</b>
	2. Mr. Joseph M. Gitonga
	3. Mr. Thomas N. Mshindi
<b>Principal Secretary</b>	4. P.S, Ministry of Education
	5. C.S, National Treasury
<b>Ex-officio Member</b>	6. Vice-Chancellor

**Conflict of Interest, Code of Conduct & Ethics**

JKUAT has fully adopted the Code of Ethics that is enshrined in the Mwongozo which is the Code of Governance for Government owned entities. The code of ethics entails among other things declaration of Conflict of Interest which must be embraced by both the Council and the employees of the organization. The University maintains a conflict of interest register which is availed in every meeting. This applies to all members of the University community, including members of the University Council academic, administrative and support staff and, where appropriate, Students Governing Council. The Council members are required to avoid conflict of interest and deal at arm's - length and with integrity in any matter that relates to JKUAT. The Council has put in place Anti-Corruption Policy to curb any form of corruption in the University.

**Whistle Blowing Policy**

JKUAT has a whistle blowing policy embedded in the anti-corruption policy which has a clause stating that Council shall ensure that person(s) making any corruption disclosures shall be protected against any reprisals or harmful action as a result of such disclosures. Therefore, all the information received by the Council and sources of such information shall be treated as highly confidential. If such information disclosing or hinting to such sources must be disclosed, it shall be with the consent of the person(s) who disclosed the information.

**Risk Management**

The Council is responsible for risk management and has an approved policy and procedure document for risk management. The Council conducts risk assessment on regular basis which informs the internal audit plan.

The University has an in-house Legal Officer and has appointed advocates and other consultants to advice on litigation risks. The identification and management of risk is a continuous process linked to the achievement of the University's objectives. The University Council through its Risk and Audit Committee received regular reports during the year on internal controls and risks.

**Compliance with Statutory Requirements**

Despite the financial constrains experienced, the University strived to make timely remittance of statutory deductions including; National University Insurance Fund, National Social Security Fund etc, in order to protect the welfare of its staff in retirement and University Insurance and comply with statutory requirements during the year under review. Some obligations were however in arrears as at the close of the financial year due to cash flow challenges.

## II. MANAGEMENT DISCUSSION AND ANALYSIS

### a) Operational Performance

#### **JKUAT Develops System that Predicts Covid-19 Infection Trends in Kenya**



*From left: Dr Ngigi of GEIGIS,  
Dr. Mungatu of SMS,  
Prof. Wamunyokoli of SOBMS,  
Mr. Muriuki of GEIGIS,  
Ms. Gichaiya of ICT,  
Dr. Aduda of SMS,  
Prof. Karanja, Dr. Thuo and Dr.  
Athiany of SMS.*

As the COVID-19 disease continues to ravage the globe, an accurate prediction of the evolution of the pandemic, generation of pandemic-related data and the optimal dissemination of information, partly holds the key to the successful management of the pandemic. A team of researchers at Jomo Kenyatta University of Agriculture and Technology (JKUAT) has developed a utilitarian web-based digital platform that provides diverse data that is key in predicting the Coronavirus (Covid-19) disease infection trends in Kenya. The innovation is a significant contribution by JKUAT aimed at supporting government's strategies in combating Covid-19 through prediction of coronavirus disease infection trends at national and county levels and dissemination of vital information about the disease.

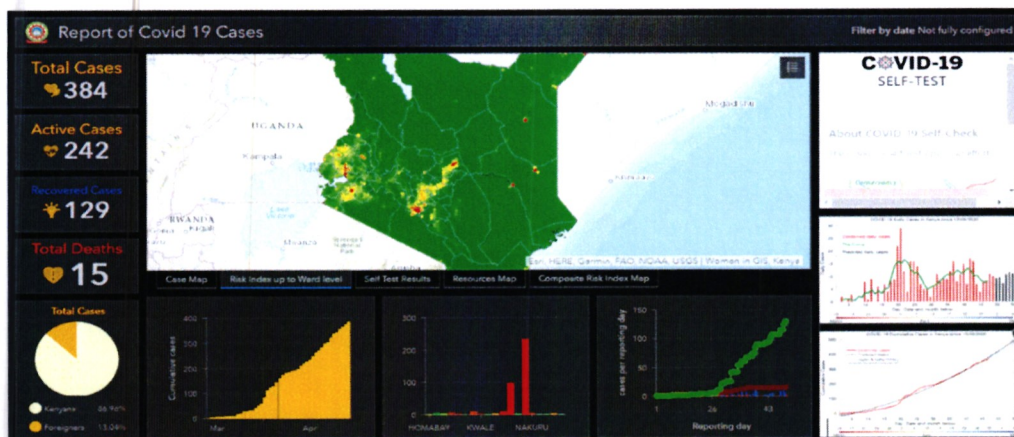
The Dean, School of Public Health, Prof. Simon Karanja and Dean, School of Medicine, Dr. Reuben Thuo, while acknowledging the pandemic poses a major health threat, they appreciate the interventions introduced by the government since the confirmation of the first case on March 13, 2020. However, as researchers, they strongly felt they could leverage on the synergy of health science experts resident in the College of Health Sciences (COHES) as well as a multi-disciplinary team of experts in other disciplines at JKUAT such as Mathematics/Statistics, Information Technology, Geospatial and Geomatics Information Systems and Remote Sensing, to come up with practical and innovative interventions that seek to address specific gaps in the management of the pandemic thus boosting government initiatives to tame the spread of the pandemic.



The research team that includes – Prof. Haroun Mengech, Dr. Jane Aduda, Dr. Joseph Mungátu, Dr. Henry Kissinger Athiany, Dr. John Gachohi, Dr. Joseph Machua, Dr. Thomas Ngigi, Prof. Fred Wamunyokoli, Ms. Carol Otiwa, Ms. Esther Gichaiya, Mr. Jonathan Mwai, Mr. Charles Muriuki, Ms. May Kitiyo, the Palladium Group and officers of the Ministry of Health – is driven by three major concerns that are predicated mainly on government actions in response to the pandemic:

One, what is the impact of the various interventions instituted by government? Two, what are the predicted outcomes of these interventions? Three, what measures could government adopt/enhance to mitigate the impact of Covid-19?

In an interview conducted in strict observance of social distancing rule, Prof. Karanja and Dr. Thuo who spoke on behalf of the research group, revealed the team has successfully developed three innovative products:



The JKUAT Covid-19 Dashboard at DHARC

“[The JKUAT Covid-19 Dashboard](#) that maps the hot spots, health resources and risk maps in Kenya up to the ward administrative level across all counties; the *Spatial Real-Time Presumptive Covid-19 Tracker* application (a self-test check that designates low, moderate to high risk in regard to suspected cases) as well as the *Predictive Disease Models*.”

The Dashboard provides a one-stop shop for various data analytics products critical for making informed-policy decisions. One can access statistics on the total number of confirmed cases, active, recovered or dead cases, gender, local or foreign, daily confirmed cases dating back to when the first Covid-19 case in the country, the evolution of coronavirus cases in Kenya overtime and their distribution by counties.

The *Spatial Real-Time Presumptive Covid-19 Tracker* application is a self-administered health test that picks a person’s location and map it on to the dashboard. The ministry of health can then use this information relayed to the national map to make decisions such as undertake targeted mass testing in an area flagged by the map.

The team has managed to generate a number of **predictive disease models**, making it possible to forecast the number of confirmed cases (active and dead) over time against the actual numbers.



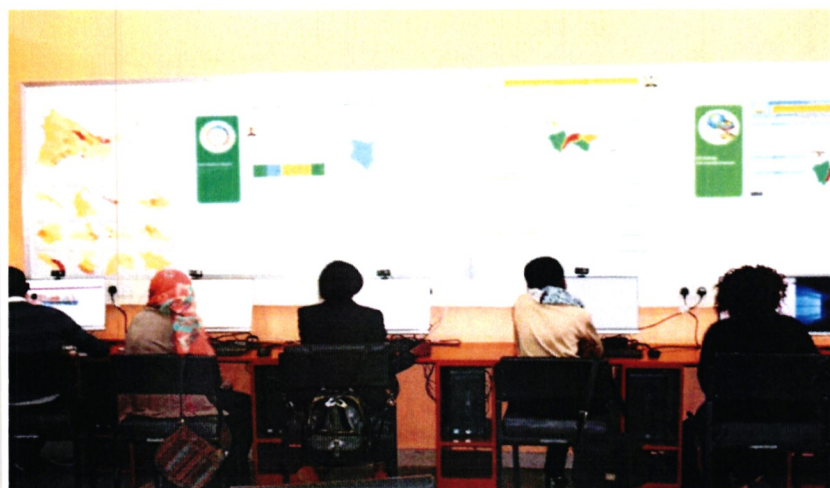
*Dr. Thuo (in a tie) explains to the Chairperson of the Kenya Medical Practitioners and Dentists Council, Dr. Eva Njenga, how the DHARC works during the launch of the centre last year at COHES complex.*

These models take into consideration the Composite *Risk Indices* –sensitivity analysis using varying levels of interventions the ministry of health has introduced such as – hygiene measures, social distancing, personal protective equipment (PPEs), testing, contact tracing, mobility, social gatherings, frontline staff, population structure and household characteristics among others.

Interestingly, one of the models, consistent with observations made by the researchers, validates the outcome of initial government interventions such as quarantine, contact tracing and county containment. In addition, the model underscores the paramount importance of social distancing and hygiene. Commenting on the risk

map (premised on the number of confirmed cases), the researchers say, it provides valuable information that informs Covid-19 national and county preparedness strategies. To avert a scenario where the country's healthcare system might be overwhelmed, the model sheds light on intervention measures the government needs to implement; tailored to minimize contact between persons to less than 20, especially in high risk areas as indicated by the risk map.

What recommendations does the team offer? Observation of more stringent hygiene measures, adherence to effective social distancing, protection of front-line staff (PPEs), increased testing capacity and de-stigmatization of the disease.



*JKUAT research students at the Digital Health Applied Research Centre that hosts the Ministry of Health's UHC Dashboard.*

The Vice Chancellor, Prof. Victoria Wambui Ngumi lauded the researchers for their contribution towards addressing coronavirus pandemic in the country by working collaboratively as a team. Prof. Ngumi stated that as a university, the main preoccupation of experts is to ask themselves what can be done to address a problem affecting the society. "We are happy to participate as a university and come up with these innovative solutions that will support the government to tackle the pandemic," she stated.

The researchers had an opportunity to engage health ministry officials on the university's current research intervention which demonstrate JKUAT's capacity to offer innovative solutions to the country. Currently, JKUAT hosts the Digital Health Applied Research Centre (DHARC) that aims to create an environment for sharing knowledge and experiences around innovative digital health tools, and the Universal Health Care (UHC) dashboard of the Ministry of Health.

## Covid-19: Jkuat unveils solar-powered ventilator, contact tracing app



*The Jomo Kenyatta University of Agriculture and Technology (Jkuat) unveils a ventilator, one of several inventions to help fight the Covid-19 pandemic, at its main campus in Juja on May 7, 2020.*

Jkuat has unveiled two portable solar-powered ventilators that use a 12V battery, a contact tracing application, a digital system that predicts Covid-19 infection trends in Kenya and an automatic solar-powered hand-washing machine.

Karanja Kabini, a mechatronics engineer who was one of the innovators, said the ventilators whose materials are locally available are highly reliable and can operate for two weeks without the need for maintenance. “It has a control panel that can vary the breathing rate, an operator that can increase or reduce the amount of oxygen and it can be used by adults and children,” Mr Kabini explained. The gadgets are light therefore easy to transport. Vice-Chancellor Victoria Ngumi termed the developments by a team of engineers, researchers and innovators a huge breakthrough in the country’s war against the coronavirus. Prof Ngumi says the university’s engineering department has the capacity to produce 10 ventilators weekly, a boost for Kenya which has a shortage. Ventilators are crucial for coronavirus patients with breathing difficulties.

## Students Invent Automatic Solar Powered Hand Washing Machine

*Three of the five student researchers (from right) Tounsi, Mashava and Rukerandanga making their final touches to the Innovation they developed.*



The old adage by the ancient Greek Philosopher, Plato that “necessity is the mother of innovations”, would not have been more applicable then, than it is today. With the outbreak of the indiscriminate Coronavirus pandemic that has left researchers spend sleepless nights trying to find a cure, every effort has become critically necessary to rid the world of this menace.

The scourge has not, and does not seem like it would spare anyone if precautions are not taken by all and sundry looking at the figures declared every other day. The entire world is grappling with the pandemic, leaving no room for even the well-to-do to seek for treatment elsewhere as the case may have been. It is this urgent search for a solution that compelled five research students from the Pan African University (Institute for Basic Sciences, Technology and Innovation (PAUSTI) domiciled at the Jomo Kenyatta University of Agriculture and Technology (JKUAT) to invent an Automatic Solar Powered Hand Washing Machine, which the Cameroonian lead research student, Willy Tounsi, a PhD Electrical Engineering majoring in Power Systems says, “would help the community around Juja and elsewhere keep off this scourge if the explicit instructions the hand washing machine gives as one attempts to wash his hands are followed to the latter”.

With other four fellow researchers, Filston Rukerandanga, a PhD Electrical Engineer (Telecommunication option) from Burundi, two Masters of Science students in Mechanical Engineering, Destine Mashava from Zimbabwe and Pauline Mwambe from Uganda, and Yves Jouontso from Cameroon (pursuing his Masters in Civil Engineering at PAU), Tounsi says their effort, coming from different countries in Africa, was a representative of the solutions Africa was looking for: a cost effective working innovation that would easily be escalated to local communities across African countries considering that the challenges were similar. The students are supervised by Prof. George Nyakoe from JKUAT’s College of Engineering and Technology (COETEC).

The system developed at JKUAT’s engineering workshop incorporates some bit of intelligence purposely fitted to avoid wastage of soap and water that is used when one washes his hands. The machine which is fitted with a sensor also has a provision for the installation of a thermometer meant to measure individuals’

temperature as they washed their hands. According to Eng. Dr. Peter Kihato, the Manager at JKUAT’s engineering workshop, most of the materials and applications used to develop the automatic hand washing machine were locally fabricated at the workshop. He says the machine can be used even in the remotest areas of Africa that did not have power by people who wished to cleanse or sanitize to avoid the Covid -19 pandemic.

**How the Solar Powered Automatic Handwashing Machine works:**

According to Tounsi, the lead researcher, the innovation targets local communities and is aimed at helping in the fight against Covid -19 or any other related case. It has a sensor that detects every step when one wants to wash his hands. Immediately one draws his hands closer to the two fitted taps, the machine would sense the move and within a second, would dispense soap. The individual will then be allowed 15 seconds to scrub his hands, and within the next 15 seconds, water would be flowing for the individual to rinse his hands. Should the time allocated not be sufficient, the machine after sensing the same, would additional extend the flow for another five seconds after which it would automatically switch off, in readiness for the next user.

To comply with the Government’s call for people to adhere to safety precautions in order to avoid contracting the Corona virus, the system is fitted with a Liquid Display Unit (LCD) that instructs the user in both English and Kiswahili languages on what to do as he prepares to wash his hands. For instance, immediately one places his hands below the tap, the system digitally alerts the individual that he is about to receive soap, it then instructs the person to scrub his hands, and two seconds later, one is alerted that it is time to receive the water to rinse his hands. At the end of the hand washing exercise, the system finally advises the individual to KEEP SOCIAL DISTANCE. It is indeed, an interesting step by step process.



**Light Displays:**

*Tounsi demonstrates how the innovation he developed with fellow student researchers works*

To avoid a situation where water in the storage tank could be depleted without the knowledge of the user, the system is fitted with three light display alerts of green, yellow and red colours, where green would signify full tank, yellow mid full, and red, empty tank that would require filling up.

While commenting on the innovation, the Director of Pan African University Prof. Gabriel Magoma said Covid-19 was a global challenge that took everyone by surprise, noting that the efforts by the students to contribute towards finding a solution to the pandemic through their project was highly commendable. He appreciated the funding input from the African Union towards the various projects being undertaken by PAU students that were meant to benefit society in the region.

## Researchers Share Experiences on Bio-medical Engineering



### *Prof. Abukutsa makes her remarks*

A delegation of leading scholars and researchers from USA and Japan representing Hitachi R and D Group, RIKEN and Purdue, Osaka and Kyoto universities, visited Jomo Kenyatta University of Agriculture and Technology (JKUAT), Tuesday, August 27, 2019 to share their experiences and support towards the Bio-medical Engineering Programme that is currently being developed.

The Deputy Vice Chancellor in charge of Research, Production and Extension, Prof. Mary Abukutsa, who received the visiting team on behalf of the Vice Chancellor, Prof. Victoria Wambui Ngumi, urged the visiting researchers to also explore collaboration in other thematic areas relevant to the country's development agenda. She further explained that it was one of the ways in which the University could contribute to the Government's Big 4 Agenda with the aim of addressing the challenges and providing solutions to global problems.

Prof. Abukutsa stated that the new curricular was influenced by the society's general shift towards everyday utilization of machinery and technology in all aspects of life, further explaining that the combination of engineering principles with biological knowledge will address the medical needs and revolutionize the medical field in Kenya.

General Manager, Center for Exploratory Research, Research & Development Group, Hitachi, Ltd, Shinji Yamada, said collaboration with JKUAT will go a long way in strengthening the relationship between Kenya and Japan. Tamaral Kinzer-Ursem, a Bio-Medical Engineer from Purdue University, pledged her support in the development of the curricular. She observed that JKUAT and Purdue universities shared the same vision of using engineering principles to research and develop medical applications, treatment and diagnostic technologies related to acute or chronic medical conditions.

## **JKUAT Bags the Best University Honor at International Trade Fair**



*Prof. Ngumi (center) explains how the Urban garden works to President Uhuru Kenyatta when he visited the JKUAT stand*

Jomo Kenyatta University of Agriculture and Technology was declared the University with the Best Stand during the 2019 Nairobi International Trade Fair (NITF) beating her compatriots, the University of Nairobi and Kenyatta University, among other universities.

With stiff competition from multinationals, public and private institutions, among them, higher learning and research organizations, the honour of clinching the *Best University Stand* was complemented by bagging another first, the *Best Innovation and Invention Stand*. The quadrans centennial institution also emerged 2<sup>nd</sup> in the *Stand that Best Interprets Current Show Theme* in the Education and/or Research category and in the *Best Stand Embracing Information Technology and Communication* classes respectively. These accolades have once again affirmed JKUAT prowess in research, innovation and entrepreneurship in the country. In keeping with the theme of the show: *Promoting Innovation and Technology in Agriculture and Trade*, JKUAT researchers and exhibitors showcased several innovations geared towards agriculture and entrepreneurship. The innovations ranged from those in food security, agricultural mechanization, and agribusiness as well as value chain.



*President Uhuru interacts with snail farming and products*

One of the innovations in particular was the Manufacturing Research Chair Project on technological innovations for quality and productivity in the coconut value chain. The project is geared towards strengthening the coconut value chain in Kenya, given that the coconut crop is grown widely along the Kenyan coastline, but its potential and benefits have not been fully exploited especially for small and medium size enterprises in the coconut sector.

The 5-year project, implemented in the coastal region, is supported by National Commission for Science, Technology and Innovation (NACOSTI), and the Canadian International Development Research Centre (IDRC), under the University Research Chairs programme.

While lauding Universities and research institutions for providing leadership in discovering new varieties of crops that are both climate and disease resilient, President Uhuru Kenyatta said farmers need to modernize their agricultural processes and embrace technology and innovation in agriculture to eliminate hunger. The president was speaking during the official opening of the Nairobi International Trade Fair where he stressed on the importance of value addition in agriculture especially for small holder farmers. He also visited the JKUAT stand and interacted with the various innovations being exhibited.



*The University Management led by the Chair of Council, Prof. Paul Kanyari (3rd right) and Vice Chancellor, Prof. Ngumi (3rd left) pose for a photo with the winning spears*

In their congratulation messages to the JKUAT team, the Vice Chancellor, Prof Victoria Ngumi and Deputy Vice Chancellor in charge of Research, Production and Extension (RPE), Prof. Mary Ab ukutsa lauded the team for their effort and hard work that made JKUAT stand out amongst the best in the region.

Prof. Ngumi further acknowledged that agriculture is a key component in driving the economy of the country and said JKUAT is committed to agricultural research and dissemination of the outputs that will be vital in tackling food insecurity and malnutrition in the country.

## JKUAT Carries the Day in the Central Agricultural Show



*Prof. Ngumi (left) and Prof. Abukutsa (2nd Left) explain to Cabinet Secretary, Agriculture, Mwangi Kiunjuri the nutrition value of the African Indigenous Vegetables during his visit to the JKUAT Stand*

Jomo Kenyatta University of Agriculture and Technology has once again affirmed her prowess in research, innovation and entrepreneurship at the Central Kenya National Agricultural Society of Kenya (ASK) Show in Nyeri after clinching top place in seven of the 10 classes it entered, among them, the Best Stand Embracing Information Technology and Communication System and Best Stand in Research and Development award. This is an improvement from last year's performance when the University scooped six top awards.

While congratulating the researchers and innovators exhibiting at the show, Vice Chancellor, Prof. Victoria Wambui Ngumi said academia must take the lead in transforming the economy through national priority areas of the Big 4 Agenda which include Food Security and Nutrition, Universal Health Coverage, Affordable Housing and Manufacturing. She commended the exhibitors for complimenting the Government's focus as depicted by the exhibits.

"The University is displaying outputs from research and innovations covering these important areas. JKUAT believes, the country should benefit from these displays in many ways to better their livelihoods," said Prof. Ngumi.



*Prof. Ngumi receives a trophy from CS Kiunjuri. They are flanked by (from right) Deputy Vice Chancellor, Administration, Prof. Bernard Ikua, Prof. Abukutsa, and Director Extension, Mr. Jeremiah Mbugua.*

In keeping with the theme of the show, *Promoting innovation and technology in agriculture and trade*, JKUAT researchers and exhibitors showcased several innovations geared towards agriculture and entrepreneurship. The innovations ranged from those in food security, agricultural mechanization, and agribusiness as well as value chain.

Prof. Ngumi highlighted some of JKUAT's innovations geared towards the 4 pillars of government's development agenda such as the role of eco-block in providing decent, affordable and environmentally friendly housing for our citizens; the value addition of undomesticated fruits such as gooseberries and cacti in making beverages; the application of mechanized agricultural tools such as the three in one chaff mill and fruit pulpier at small holder farmer level to increase agricultural productivity; capacity building of county health officials on data analytics and GIS for informed decision making in health.

The other classes JKUAT excelled in were; The Best University Stand, The Stand that Best Interprets the Theme, The Most Striking Display in Demonstration of Locally Manufactured Products, The Best Stand Exhibiting Agricultural and Earthmoving Equipment and the Best Innovation and Invention Stand. The University also emerged 2<sup>nd</sup> in the Best Agro-Processing Stand, the Best Stand in Youth Activities, Empowerments and Capacity Building and the Best Agricultural Based Statutory Board/Commission Stand.



*Wanjala Wabebera explains how to extract fuel from plastics*

Apart from academic programmes offered at the University, visitors who thronged the stand interacted with various mechanized and agricultural products such as the Indigenous African Vegetables, Cricket Flour and Cookies, Gooseberry and cacti value added products. In agricultural mechanization, the University showcased the Multi grater, Multijuicer, Macademia dehusker, Rehau Biogas, Zero energy cooler, low cost portable greenhouse, and the *Shujaa* Tractor, to name but a few.

Bio-Snail Organic products exhibited by Dr. Paul Kinoti from Horticulture Department was the busiest stand as it quelled the curiosity of the visitors on matters snail farming and its potential to agribusiness. The visitors had the chance to sample snail meat, bio-snail cream and bio-snail organic.

In her congratulations message to the JKUAT team, the Deputy Vice Chancellor, in charge of Research, Production and Extension (RPE), Prof. Mary Abukutsa lauded them for working tirelessly and giving their all, efforts that she said, had continued to make the University stand out as amongst the best in the region.



*Sister Monica Awino of College of Agriculture and Natural Resources explains the benefits of Baofood in Nutrition*

The JKUAT team had an opportunity to interact with the Cabinet Secretary, Agriculture, Mwangi Kiunjuri, Chair of Council, Prof. Paul Kanyari, Council member, Commissioner Peter Okwanyo and University Management Board who visited every section of the JKUAT stand to have a feel of the various research outputs that have cemented JKUAT Prowess in teaching, research and technological innovation.

#### **JKUAT Enhances Efficiency, Introduces Call Centre**

Stakeholders making any form of enquiries at the Jomo Kenyatta University of Agriculture and Technology (JKUAT) will from now on find it easier to get information from the institution following the introduction of a Call Centre.



*Prof. Ndungu (second from left) interacts with staff at the JKUAT Call Centre during his recent visit to the University.*

The JKUAT Call Centre provides, among other services, relevant information from the various departments, which is availed to persons making enquiries regarding admissions or any other university products, services or programmes. The official contact number to be used by anyone seeking information is **0709715815**. During his recent familiarization visit to the JKUAT Industrial Assembly Plant and the Call Centre, the University Chancellor, Prof. Joseph Ndung'u commended the University for the move stating it was a good channel through which public concerns could be handled efficiently.

“This is an excellent idea that would by all means give instant feedback to the different stakeholders, key among them, students seeking admission and other relevant information from the University,” said Prof. Ndung'u who tried calling the contact number 0709715815 to ascertain its viability.



*Work in progress at the JKUAT Assembly Plant*

The Vice Chancellor, Prof. Victoria Wambui Ngumi who accompanied the Chancellor during the visit said, the University had to look for proper channels of handling her stakeholders' concerns which was why the Call Centre was found to be the most effective and efficient. The establishment of the Call Centre is in line with the University's 5-year Strategic Plan 2018-2022 which recognizes effective and efficient customer care as critical to the extent that it would have a huge impact on the University. The Call Centre manned by vibrant trained, informed and knowledgeable personnel operates daily during working days from 7 am to 7 pm.

## Researchers seek ways to help farmers deal with climate change



*A farmer in Kambiti talks to researchers and other farmers*

Jomo Kenyatta University of Agriculture and Technology is conducting a research that will help farmers in Kiambu and Kajiado adapt to changing weather patterns. Emmanuel Ochola, a climate change scientist, said the research will also guide policy making for the provision of water. The project will be concluded in March next year. Ochola said the research relies on historical data which shows that temperatures are continuously increasing and could affect food production. The research, Ochola said, is prioritising horticulture and how it will be affected by climate change in the future. He gave the example of tomatoes that require about 30 degrees Celsius to grow to maturity. The data shows that from August, only two months have temperatures above 30 degrees yet in 2045, only two months will have temperatures below 30 degrees.

He said many farmers make efforts to deal with drought and lack of water but do not know how to deal with the rising temperatures. “We have noticed there have been changes in temperatures and rainfall, and want to map out how they will affect farmers,” Ochola said. The information, he said, will guide farmers on the kind of seeds to plant and farming practices to use. He recommended planting of indigenous trees as the cheapest and most effective way of dealing with increasing temperatures. Hasse Goosen, a scientist from Netherlands, on Thursday said the project is a collaboration between his organisation Climate Adaptation Services and JKUAT.

The partners are working with extension officers and the Meteorological department to develop a website that visualises the impact of climate change. “We want to map its impact on the horticulture sector in Kiambu and Kajiado and later, the project can be extended to other counties,” he said. The project is being funded by a European Research programme called Copernicus Climate Services that offers a data store on climate change at the global level. The researchers use the data to analyse what will happen in a particular area and

are able to tell the climatic changes that can be expected. “We are also interested in learning about climate-smart agriculture and the interventions farmers can make to improve their farming and become more climate proof and better prepared for the future,” he added. Speaking at Kambiti, Murang’a county, during a farmers’ interaction forum, Goosen said he had been impressed by measures used by local farmers in the semi-arid area to mitigate insufficient rains. “This is a very good example of farms that have already adapted to the changing climate and have heavily planted trees, practice organic farming, conservation agriculture and rainwater harvesting,” he said. Goosen said they are partnering with JKUAT because its climate research centre will be the host of the system that they are developing.

### **Training Workshop to Enhance Geothermal Technical Expertise Held**



*Prof. Kinyua reads the VC’s speech. Listening on (from left) Prof. Ikua, Mr. Kiringithi, Mr. Lupe and Dr. Mutia*

Geothermal experts drawn from Jomo Kenyatta University of Agriculture and Technology (JKUAT) and her collaborators; JICA, KenGen, Geothermal Development Company (GDC) and Kyushu University in Japan converged today, September 2, to seek possible ways of enhancing technical expertise critical in exploiting and developing geothermal in Kenya. Addressing the experts during the week-long training workshop held at the JKUAT Main campus in Juja, Chief Geologist from the Ministry of Energy, Mr. Chrispin Lupe lauded the organizers for the training acknowledging that the move was critical in enriching the capacity of geothermal experts in the country.

Through a multisector collaboration on geothermal capacity building, JKUAT, KenGen, Kyushu University (Japan), GDC and JICA, bided and won the Science and Technology Research Partnership for Sustainable Development (SATREPS) research grant that will soon to be launched. For this milestone, Mr. Lupe who represented the Energy Ministry Principal Secretary, Dr. Eng. Joseph Njoroge assured the partners of the

Ministry's support and said SATREPS provided a great opportunity for in-depth research in the geothermal sector to further understand geothermal activities in the East African Rift Valley.

JKUAT Vice Chancellor, Prof. Victoria Wambui Wambui Ngumi said her University sought to be involved in carrying out extensive research and training on the assessment of the vast geothermal resources in Kenya and innovate appropriate technologies to optimize its exploitation. "JKUAT considers technological advancements, innovation and entrepreneurship as the key drivers of sustainable development. One of the key areas of focus for the university is research on energy and in particular renewable energy," said Prof. Ngumi in a speech read on her behalf by Deputy Vice Chancellor in-charge of Academic Affairs, Prof. Robert Kinyua.

On SATREPS, Prof. Ngumi was confident that the research grant will significantly help facilitate the rollout of major innovations, formulations and technology to the geothermal sector across the country. "For SATREPS to succeed there is need to build capacity through such short appraisal training workshops and develop a smooth working relationship between the partner institutions," opined the Vice Chancellor.

The Managing Director and Chief Executive Officer GDC, Eng. Johnson Ole Nchoe who was represented by the Senior Scientist in-charge of Research and Innovation, Dr. Thecla Mutia acknowledged JICA and Kyushu University for the development of human capacity and provision of geo-scientific equipment towards geothermal exploitation in the country. The training workshop that culminates on September 7 with a field trip to Olkaria geothermal power plant, was also addressed by among others; Mr. Cyrus Karingithi (KenGen Ltd.), Deputy Vice Chancellor, Administration, Prof. Bernard Ikua, Principal of College of Engineering and Technology (COETEC), Dr. Hiram Ndiritu, Professor Emeritus, Kyushu University Prof. Ryuichi Itoi, and Mr. Seroni Anyona (CoETEC).

## Prof Magoha Commends JKUAT for its Role towards the Big 4 Agenda



*Comm. Okwanyo (center) flanked by (from left) Prof. Ngumi, Prof. Abukutsa and Prof. Kanyari engaged by Dr. Evelyn Okoth*

Education Cabinet Secretary Prof. George Magoha has commended Jomo Kenyatta University of Agriculture and Technology's (JKUAT) contribution towards innovation development and dissemination in the country, a role that he said had helped the country rank high in Africa. He said the University's innovative efforts had contributed immensely to Kenya becoming quite competitive in the region because of the capacity for technology creation, adoption and innovation, making the country be ranked second only to South Africa as an innovation giant, according to recent media reports.

Prof. Magoha made the remarks in a speech read on his behalf by the Ministry's Administrative Secretary, Commissioner Peter Okwanyo during the official opening of the University's 10<sup>th</sup> Open Day at the Juja Main Campus. He said the leadership role played by the University in providing facilitation and support towards the recent successful national census was commendable. He encouraged the youth to take opportunities available in higher education, and especially to pursue courses in Science, Technology, Engineering and Mathematics (STEM), which he said, were critical for the country if it was to achieve its development agenda as envisioned in Vision 2030 and the Big Four Agenda. Prof. Magoha said it was the government's desire to see that the country's youth were provided with access and relevant education for a successful nation and sustainable economic progression, which was why his ministry had engaged all stakeholders in the implementation of the Competency Based Curriculum (CBC). The minister believed CBC was fit and an asset to the education sector. The government, he said, was convinced and firmly believed it shall achieve this important milestone necessary for the bright future of the country.



*Pramilla Mwibanda, a horticulture student, explains to open day participants how seedlings are grown*

In his remarks, the Chairman of JKUAT Council Prof Paul Kanyari Njuki said the University was endowed with very talented and innovative students and staff who had over the years dedicated themselves to the noble enterprise of providing all round solutions to the country's various challenges that complimented the Government's Big Four Agenda. He however appealed for support from both public and private sector to hold the young innovators and researchers as they make effort to surmount challenges that come with industrialization and commercialization of innovations.

Addressing the same gathering, the Vice Chancellor Prof. Victoria Wambui Ngumi said the University had invited secondary schools to the Open Day as future leaders of the country well aware that they needed to be adequately prepared and equipped with information, skills and knowledge for successful and progress at individual, community and national level. "The University has utilized all possible information and communication, in bringing to the attention of all youth on the importance and purpose of Open day," he told the gathering. She welcomed stakeholders to identify and adopt beneficial research and innovation outputs offered by the University in solving the various challenges facing the society and country at large.



*Mary Nyagacu explains the manufacturing research chair on coconut value addition.*

Prof. Ngumi invited the secondary school students to join JKUAT for their career progression as it had an unrivaled capacity for teaching and hands-on training in the various fields of their interest, adding that its academic programmes were accredited and highly rated by both students and employers. The Deputy Vice Chancellor, Research Production and Extension, Prof Mary Abukutsa appreciated the University Management for the support that has ensured that the exhibitions have taken place for the past ten years uninterrupted. Among those present were the Juja Member of the County Assembly Mr. Kamlesh Shah among other invited guest.

#### **New Ambassador Reaffirms Strengthening of Bilateral Ties**



*Prof. Ngumi welcomes Ambassador Horie to JKUAT*

Japanese Ambassador to Kenya H.E. Ryoichi Horie has reaffirmed his country's commitment to strengthen bilateral co-operation with Kenya in education and industrialization. The Ambassador was speaking, Tuesday, September 17, 2019 when he paid a courtesy call on the Vice Chancellor, Prof. Victoria Wambui Ngumi. While lauding JKUAT's training and research knack, Ambassador Horie acknowledged that the collaboration between JKUAT and Japan through JICA was critical in ensuring the two countries continued to produce research with a global reach and impact. "The political stability of Kenya in the region is vital in providing a conducive environment for collaborations especially in the education sector," said Ambassador Horie.

Apart from academic exchanges for both students and staff, the ambassador said he was aware of Japanese companies operating in Kenya and was willing to provide a link between the companies and startups in the country. He was confident that such linkages would provide a great platform for students who were keen in venturing in entrepreneurship. On her part, Vice Chancellor, Prof. Victoria Wambui Ngumi acknowledged that JKUAT had enjoyed a long and constructive relationship with the people of Japan dating back to 1979. "The development of JKUAT over the years has taken place in the backdrop of strong support from the Government of Japan through the Japan International Cooperation Agency (JICA)," confirmed Prof. Ngumi.

She further said the collaboration and support had made it possible for JKUAT to emerge as a regional research and innovation powerhouse offering over 400 academic programmes in diverse fields such as agriculture, engineering, technology, health sciences, enterprise development, built environment and other applied sciences.



*Commemorative group photo with Ambassador Horie*

While thanking the Japanese government for the capacity building support in human resource, Prof. Ngumi urged the ambassador to support the innovation value chain, enhance collaboration and linkages through Africa-ai-Japan Project to ensure that JKUAT and Kenya at large develop novel technologies to leverage and leapfrog Kenya's development challenges. "It is my belief that the collaborations and linkages will present the opportunities to come up with viable research outputs and innovations geared towards Africa's socio-economic progress," opined Prof. Ngumi. Present during the courtesy call were; Deputy Vice Chancellors, Prof. Otoki Moirongo, Prof. Bernard Ikua and Prof. Robert Kinyua.

### **African Union Honours JKUAT Chancellor with Excellence Award**



*Prof. Ndung'u: Honoured*

Jomo Kenyatta University of Agriculture and Technology (JKUAT) Chancellor, Prof. Joseph Mathu Ndung'u has become the latest beneficiary of the African Union's prestigious Excellence Award, 2019. Prof. Ndung'u who is the Head of Neglected Tropical Diseases at the Geneva-based Foundation for Innovative New Diagnostics (FIND), was "selected by a committee based on his achievement and contribution to research and control of T & T in recognition for spearheading the Development of New Diagnostics Tools for Neglected Tropical Diseases." The award ceremony took place on September 27, 2019, during the commemoration of the 70 Years of the Establishment of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC). In 2009, Prof. Ndung'u received a gold medal from the African Union for his contribution to research, control and eradication of Tsetse and Trypanosomiasis.



*Prof. Ndung'u (second from left) with Prof. Ngumi (left) during a recent visit to the JKUAT Computer Assembly Plant.*

The latest award follows a decision made for the commemoration of the 70<sup>th</sup> Anniversary of the ISCTRC to mark the 35<sup>th</sup> General Conference of the ISCTRC held in Abuja, Nigeria, on September 23-27, 2019 to recognize individuals who have made outstanding contributions, in the last 10 years, towards the mission and values of ISCTRC. The awards consisted of Plaques, Medallions and Certificates. The recipients of the awards exemplified excellence and are representatives of the best in their fields. They have consistently excelled in their positions and demonstrated integrity and a strong commitment to the mission and values of ISCTRC.



*Prof. Ndung'u (left) is taken through the indigenous vegetables research products by a research assistant, Alfred Wanzala at JKUAT, recently.*

In her message to Prof. Ndung'u, JKUAT Vice Chancellor, Prof. Victoria Wambui Ngumi congratulated the Chancellor for the achievement stating that the award has brought glory to the institution and was being celebrated by everyone. "We are all happy for him," she said. Prof. Ndung'u, a professor of Immunopathology of Sleeping Sickness, has established far-reaching linkages and collaborations with many African governments, professionals and universities.

#### **Amaranths Vegetable Stakeholders Root for Impactful Approaches to Enhance its Uptake**



*JKUAT student, Sylvia Buleti, demonstrates her Amaranths vegetables cooking skills at the Food Science and Technology Labs.*

Vegetable Amaranths researchers, donors and other stakeholders are calling for more engaging, interactive and impactful approaches aimed at increasing the consumption of Indigenous African Vegetables (AIVs), particularly vegetable Amaranths, reiterating its inherent high nutrition value that include richness in Vitamins A and C as well as minerals such as iron, zinc, calcium, potassium and phosphorus among others. The stakeholders revealed during a two-day workshop to share the progress on the *Amazing Amaranth* research project, organized by the Jomo Kenyatta University of Agriculture and Technology (JKUAT) and the World Vegetable Centre, jointly implementing the *Amazing Amaranth for Nutrition Security, Health and Sustainable Development research* – funded by the Federal Ministry for Economic Cooperation and Development of Germany (BMZ), through the GIZ.



*Prof. Abukutsa (2nd from right) explains to Christina (right) and Dinsa when they visited the indigenous vegetables exhibition area.*

The participants hailed the value of vegetable Amaranths – one of the popular indigenous vegetables widely consumed across the sub-Saharan Africa, explaining that vegetable amaranths has anti-oxidant activity; the anti-oxidants aid in the removal of harmful chemicals in the body. The research team leader contends that by consuming vegetable Amaranths, a person becomes healthy and is likely to be less predisposed to lifestyle diseases, revealed Prof. Mary Abukutsa-Onyango, during the forum. Prof. Abukutsa and Prof. Willis Owino, one of the supervisors of Winnie Nyongje, a PhD student at JKUAT working on the Amaranths research project – gave an incisive snapshot presentation of the AIVs and Amaranth research milestones at JKUAT, including a display of posters, potted plants and processed vegetable Amaranths products. Dr. Roland Schafleitner and Prof. Abukutsa are the Amazing Amaranth Research Project’s Coordinator and Principal Investigator, respectively. The 4 – year project runs up to 2021.



*Christina joins other stakeholders during a tour of the JKUAT demonstration farm where Amaranths breeding and growing is done.*

Ms. Christina Lubotzki, working for GIZ, under the Advisory Service on Agricultural Research for Development project (BEAF), said, GIZ is commissioned by the Federal Ministry for Economic Cooperation and Development of Germany (BMZ) to manage Germany’s support to international agricultural research for development (i.e. 17 international agricultural research centers).

Christina further observed, the World Vegetable Centre is one of the centres that has partnered with JKUAT to implement the *Amazing Amaranths* research project, noting she was delighted to be in Africa and Kenya to interact with the Amaranths project researchers and other key stakeholders and familiarize herself with what is happening on the ground and the kind of impact the *Amazing Amaranth* research initiative is already having amongst the stakeholders on the ground. “It is exciting to be in close touch with the projects to assess what needs to be applied, and what the population and consumers require. This forum is key in engaging, exchanging and translating what we are working for and what we see,” Christina, observed. Dr. Schafleitner who was accompanied by Fekadu Dinsa, and Perijn Schreinemachers all from the World Vegetable Centre, reiterated that the forum, “provided a good opportunity to review the Amaranths research progress and plan for the remaining work to be undertaken.” He said, the research project was halfway through and acknowledged that “Christina Lubotzki’s input would go a long way in enhancing the project’s impact” and thanked her for “working closely with the research team to make its work amazing!”

*Time to serve and relish the culinary delight of cooked Amaranths vegetables accompanied with maize meal (ugali).*



The participants had an opportunity to appreciate the application of science in the preparation of highly nutritious African indigenous vegetables at the University’s Food Science Labs, with students drawn from Horticulture and Food Science and Technology Departments demonstrating various techniques of preparing and cooking vegetable Amaranths using different recipes developed by JKUAT researchers. The workshop participants who included Ruth Minja (TARI) and Thomas Kariuki (Simlaw), Dr. Patrick Mbindyo and Patrick Kavagi (JKUAT), visited the AIVs demonstration farm at JKUAT that serves as the first port of call for small-holder farmers, agribusinesses and other stakeholders in the entire vegetable value chains across

the country including students who come to learn and acquire requisite skills and knowledge on good agronomic practices, their importance for improved production, nutrition and income generation. The JKUAT forum comes in the backdrop of concerns by the World Vegetable Center that “the vegetable sector in sub-Saharan Africa is severely underdeveloped and vegetable consumption is extremely low.” However, Africa’s diverse agro-climatic zones, the center notes, “provide enormous potential for smallholder farmers to produce numerous vegetable crops for domestic and international markets.”

### **JKUAT Scholars Appointed to State Corporations**



*Prof. Losenge*

Three dons from Jomo Kenyatta University of Agriculture and Technology have been appointed to boards of state corporations to serve for a period of three years with effect from October 16, 2019. In a Kenya Gazette Notice, dated October 17, 2019, President Uhuru Kenyatta appointed Prof. Losenge Turoop to be the Chairperson of the *Uwezo* Fund Oversight Board.

In the same publication, Cabinet Secretary for Public Service, Youth and Gender Affairs, Prof. Margaret Kobia appointed Dr. Susan Mambo and Dr. Joseph Birundu Mogendi to be board members of the Youth Enterprise Development Fund. Prof. Losenge, who once served as an Associate Dean in the College of Agriculture and Natural Resources, has since 2005 served as a lecturer at the Department of Horticulture. The University of Hannover and JKUAT trained Phytopathologist has published over a dozen of papers in refereed journals and has been a visiting scholar at Clemson University in the US.



Dr Mambo

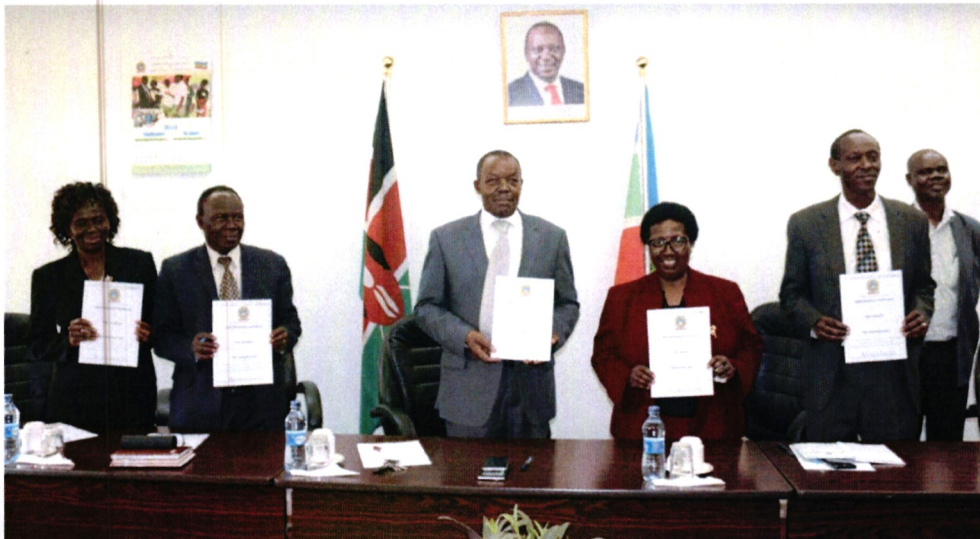


Dr Birundu

Dr. Susan Mambo is currently the Chairperson, Department of Environmental Health in the School of Public Health, and has over 10 years' experience in Public Health Systems Strengthening both in government, private sector and academia. While working for Kiambu County as a Senior Public Health Officer, Dr. Mambo led communities in the county in achieving and maintaining public health standards geared towards disease prevention, promotion of health and rehabilitation of disease cases. Dr. Mambo, passionate about youth empowerment, mentorship and career guidance, is also the Country Director of Women Advancement in Economic and Leadership Empowerment Africa Foundation. Dr. Joseph Birundu Mogendi is a Lecturer in the Department of Food Science and Technology and a Postdoctoral Fellow at the African Population and Health Research Centre (APHRC-2017), a US based research unit operating in Africa.

Most recently, Dr. Birundu was appointed by President Uhuru Kenyatta as a panelist at the Salaries Remuneration Commission through Gazette Notice No. 47 of 2018. Dr. Birundu holds a PhD in Applied Biological Sciences, and MSc. from the University of Ghent, Belgium, as well as a BSc. in Food Science and Nutrition from JKUAT. The Youth Enterprise Development Fund seeks to create employment opportunities for young people through entrepreneurship and encouraging them to be job creators and not job seekers, while *Uwezo* Fund aims at enabling women, youth and persons with disability access finances to promote businesses and enterprises at the constituency level.

## JKUAT Management Sign 2019/2020 Performance Contracts



*Council Chair and Vice Chancellor together with Deputy Vice Chancellors display the signed contracts after ceremony.*

The Jomo Kenyatta University of Agriculture and Technology Management has led the rest of the University fraternity in undertaking the task of implementing the performance targets for the year 2019/2020 performance contracting cycle.

The performance contracts were signed, October 24, 2019 in the Council Boardroom, during a brief ceremony presided over by the Chairman of Council, Prof. Paul Kanyari Njuki, who signed the Vice Chancellor, Prof. Victoria Wambui Ngumi's contract who in turn, signed contracts with all her Deputy Vice Chancellors and Principals. The Chairman of Council noted that "the Council appreciates the efforts made by the University top management in meeting the Government's expectations through performance targets." He acknowledged the Directorate of Performance Contracting and Appraisal (DiPCA), under the stewardship of Prof. John Wesonga, for their dedication and commitment that has ensured the university remains focused on targets.



*Vice Chancellor (left) with the Administration Division team after signing the Division's performance contract.*

The Vice Chancellor observed that the signing of the contracts was an important exercise because, "It will guide us in determining what performance direction to take for the year 2019/2020. Prof. Ngumi urged the University Management to encourage everyone under their respective jurisdictions "to do their best to meet the targets set out in the signed performance contracts."

Deputy Vice Chancellor in charge of Administration, Prof. Bernard Ikuu, lauded DiPCA, "for demonstrating what team work is" and appreciated the Colleges/Campus Principals and all JKUAT staff who are expected to cascade and implement the contracts.



*"Here is work to do". Prof. Mulati (right) receives his college's signed contract from the the Vice Chancellor after signing.*

Present during the signing of the contracts expected to be cascaded to all staff were; Deputy Vice Chancellor (RPE), Prof. Mary Abukutsa, Acting Deputy Vice Chancellor (Academics), Prof. David Mburu, College/Campus Principals; Professors David Mulati (COPAS), Haroun Mengech (COHES), Dr. Hiram Ndiritu (COETEC), Dr. Rose Ndegwa (Registrar, Admin) and Dr. Patrick Mbindyo (RPE). The function was overseen by Prof. Wesonga, assisted by his Deputy, Dr. Charles Gaya and Senior Administrative Assistant, Mr. Anderson Mwito.

## **JKUAT Marks Inaugural Interdepartmental Staff Sports Day**



*Catering Department: Tug-of-War Winners*

We've all heard the old adage, "*All work and no play makes Jack a dull boy.*" As an adult, it can be hard to find balance in a life that demands both work and rest. To bring this balance, the Sports and Games Department hosted the inaugural JKUAT Inter-departmental Staff Sports Day, October 11, 2019.

Apart from keeping the staff members physically fit and mentally healthy, the one day event strived at creating a bonding platform for members of staff to enhance open communication between employees, improve productivity as well as boost morale. Vice Chancellor, Prof Victoria Wambui Ngumi, while thanking the Sports and Games Department for hosting the event, said the event was noble and needed to be encouraged. She pledged to support the event which is scheduled to be hosted twice a year. "I am confident that the event will play an important role in keeping staff physically fit and mentally healthy, thus helping the institution and individuals curb lifestyle diseases if internalized as part of our daily routine," said Prof. Ngumi in a speech read by Deputy Vice Chancellor in-charge of Administration, Prof. Bernard Ikuu.



*100 Metres sprint for 50 year olds*

She further encourage staff to actively participate in the event to forge better synergies as captured in the JKUAT's core values and philosophy. JKUAT endeavours to attract, develop, motivate and retain a multi-skilled workforce while nurturing a consultative working environment, and according to the Vice Chancellor, the Interdepartmental Sports Day remains one of the ways of achieving this objective. The activities for the events were: soccer 7aside, sack race, egg on spoon race, 100 metres race for 50 year olds and above, 4 by 4 relays, swimming and tug-of-war.

Catering Department emerged winners in the vigorously contested Tug-of-War beating Sports and Games and Transport Departments who emerged 2<sup>nd</sup> and 3<sup>rd</sup> respectively. Soccer was the other hotly contested event where Estate Department hammered Finance Department 2-0 in the finals. Maurice Otunga from Estates Department emerged winner in the 100 metres for 50 year olds followed by William Kiptoo from Registry Department. The sports day was also graced by Deputy Vice Chancellor, Academic Affairs, Prof. Robert Kinyua among other heads of departments.

Josphat Balozi from the Sports and Games Department and Stephanie Kang'ethe from School of Bio-system and Environmental Engineering (SOBEE) were acknowledged as the JKUAT Strongest Man and Woman respectively after they flipped a 240kg tractor tire fourteen times. The Sports and Games Director, Dr. Kamaku Waweru thanked all the staff for their enthusiasm and passion towards the event and assured them that the department was committed in making it a bi-annual event in the University calendar.

## JKUAT Student-Innovators Crowned at Inaugural HatchHack



*Eng. Mwanda awards the winners with a trophy*

Three undergraduate students Bronson Eran'ogwa, Thomas Masibo and Duncan Odhiambo, all fourth-year students pursuing Actuarial Science, Statistics, Mathematics and Computer Science, respectively, together with Nicholas Musau, a third year student pursuing Information Technology, have been crowned winners of the inaugural HatchHack Hackathon competition, held at JKUAT Main Campus. The competition, held, November 21, 2019 pitching 17 groups against each other for the top prize saw the innovation titled; *Productivity Innovation through Early Identification, Surveillance, Disease and Pest Reporting*, emerge tops in a contest that run under the theme: *"Inventing the future today."*

Ecotopia and Computer Aided Drugs innovations came second and third respectively, during the hotly competition organized by JKUAT and Kenya Airports Parking Services (KAPS). The winning innovation – Productivity innovation through Early Identification, Surveillance, Disease and Pest Reporting innovation – is built on innovative research on automatic crop disease detection using modern technologies such as big data and data analytics to deliver an innovative, scalable, non-invasive diagnostic system for crop disease detection using large multi-modality images from smartphones. For the top spot, the winning team was awarded a full year academic scholarship, a cash prize of Kshs. 175,000 and trophies.

The second spot was claimed by Winny Okoth and Sharon Onyango, pursuing Master of Science in Construction Project Management and Landscape Planning and Conservation, respectively.

Ecotopia innovation was designed to reduce heat in urban areas by replacing impermeable pavements which inhibit air-soil-heat exchange with concrete slabs with more air voids; large surface area for air circulation to increase heat exchange between the soil and air, reducing near-surface temperature. The team was awarded a half year tuition fee, and a cash prize of Kshs. 50,000. Geoffrey Owino, Laureen Wambui and Laurah Ondari, all fourth year students pursuing Bachelor Degrees in Biostatistics, Mathematics and Computer Science and Medical Biochemistry, came third. Their molecular compound innovation has therapeutic effect on the Ebola disease. They were awarded 30% of annual tuition fee and a cash prize of Kshs. 25,000.

During the awards presentation ceremony, the Chief Guest, Chairman, KAPS, Eng. Eric Mwandia lauded the quality of innovations from all the competitors saying, the JKUAT-KAPS partnership was inspired by JKUAT's reputation for innovations. He urged the students to continue innovating pointing out that globally renowned companies such as Alibaba tech companies, were borne from innovations. In a message delivered by the Principal, College of Agriculture and Natural Resources, Prof. David Mburu, Vice Chancellor, Prof. Victoria Wambui Ngumi thanked KAPS for their unwavering support in encouraging students innovations. She said equipment received from the collaboration will go a long way in fostering research and innovation amongst JKUAT staff and students.



*The participants shortly after the opening ceremony*

Intellectual Property Management and University Industry Liaison Director, Eng. Benson Kariuki urged the students to closely work with his office in order to understand more about Intellectual Property, especially the logistics involved in acquisition of patents, copyrights and trademarks for their innovations. He further urged them to always think about the commercial value of their products and refrain from casual attitude. The three top innovation will be incubated in a bid to support the innovators develop their innovations into viable business ventures. The sub-themes of the competition were Data Analytics, Automation, Green energy and Conservation and Internet of Things.

## ICT Principal Secretary Hails JKUAT's Research, Innovation Outputs



*Conference participants after the opening ceremony.*

The Principal Secretary (PS), Ministry of Information, Communication and Technology, Mr. Jerome Ochieng has lauded Jomo Kenyatta University of Agriculture and Technology (JKUAT)'s commitment to create and disseminate knowledge and innovation outputs. Citing the role played by the University in providing the digital equipment used during the recently concluded national census, national Digital Learning Programme and the Taifa Laptop Project, which he noted, are some of the initiatives that have defined "JKUAT's collaboration with the Government and especially the ministry of ICT on various platforms." Mr. Ochieng further explained, the two innovations have become popular nationally. "I am certain, JKUAT and my ministry will continue exploring more viable avenues for cooperation..." he said. The PS said in his opening remarks to participants attending the 14<sup>th</sup> JKUAT International Scientific, Technological and Industrialization Conference and Exhibition, where he was represented by the Ministry's Senior Deputy Secretary, Mr. Abraham Ondeng, as the Chief Guest, and challenged "researchers to explore useful networks that will facilitate the up-scaling of research findings to higher levels."



*Prof. Ngumi (left) shakes hands with the Chief Guest, Mr. Ondeng' after the official opening session as Prof. Abukutsa (right) looks on.*

He also appealed to researchers to work closely with policy makers so that the research findings could help the Government by informing policy formulation aimed at addressing Kenya's socio-economic development challenges. "I am confident, through this forum, my ministry will gather useful information on vital areas of cooperation with research stakeholders," said Mr. Ochieng. JKUAT Vice Chancellor, Prof. Victoria Wambui Ngumi said, the conference serves as a rich platform for researchers and scholars to interact and share their findings with peers and other stakeholders, noting, it was also in tandem with the institution's vision to be "A University of Global Excellence in Training, Research, Innovation and Entrepreneurship for Development."

The conference, running under the theme: *Leveraging on Research, Innovation and Entrepreneurship for Sustainable Development*, Prof. Ngumi stated, has attracted over a hundred papers covering thematic areas such as physical, medical and social sciences, agriculture, environment and technology.



*Jonah Mureithi of Horticultural Students Association (HOSA), explains how capillary wick landless gardens and the seedlings raised using cocopeat innovations work.*

The papers, Vice Chancellor added, “provide possible solutions to various challenges afflicting society such as food insecurity and poor nutrition; climate change; health burden; processing and manufacturing technologies; application of information and communication technologies.” The thematic areas Prof. Ngumi further explained, “have been identified by many developing countries as key focus issues in their development agenda, and the same was reflective in Kenya’s Big Four Agenda of affordable housing, access to universal health, food security and manufacturing.” Deputy Vice Chancellor in charge of Research, Production and Extension Division, Prof. Mary Abukutsa, reiterated one of her Division’s objective of “sharing ideas and innovation outputs, noting “the conference is one of the forums for engaging the research community, policy makers and industry, among others.”



*Jackson Mutembei, (right) showcasing the new livestock herbal dewormer to conference participants.*

The opening session attended by among others, Prof. Elijah Biamah, former acting Vice Chancellor, University of Eldoret and Prof. Richard Mibey, former Vice Chancellor, Moi University, saw two researchers from Finland, Prof. Tuula Tuhkanen and Dr. Eeva-Liisa Viskari, making key note presentations. Others who spoke include the Chair, of the conference organizing committee Prof. Abiero Gariy, and Prof. Martin Obanda. The conference accorded internal and external innovators and researchers and industry, the opportunity to collaborate, network and showcase their outputs.



*Vice Chancellor interacts with the members of STADA who were exhibiting their talents.*

JKUAT researchers and innovators are showcasing an array of recent research, innovation and technological and creative outputs as seen at the Students Talent Development Association (STADA) exhibition both where students drawn from College of Human Resource Development, School of Architecture and Built Environment also displayed their artistic sophistication and appreciation of art.

## Mr and Miss JKUAT 2019 Crowned



*Ms. Wangeci is crowned Miss JKUAT 2019. On her left is Ogada, after being declared Mr. JKUAT 2019 after the contest./picture courtesy*

Nick Ogada and Nelius Wangeci have been crowned the 2019, Mr. and Miss. Jomo Kenyatta University of Agriculture and Technology, after beating other contestants in two categories each drawing 24 participants in a hotly contested pageant. At a colorful ceremony staged at JKUAT, November 29, 2019, the pageant saw 12 out of the 24 models from each gender hit the runway, after an earlier elimination process by the judges halved the competitors, leaving only the *crème de la crème* to face off. Ogada who is currently a Fourth year student pursuing a Bachelor of Science in Applied Biology, while Wangeci, a Third year, pursuing a Bachelor's Degree in Civil Engineering, both emerged tops in their respective categories, after impressing the judges with their crisp dressing and superlative grasp of communication skills during a question and answer session where they engaged the crowd. Ogada expressed his relief at winning the competition saying, his determination, hard work, and confidence was his driving force especially during the elimination process.

He stated that his immediate plan, a joint project with the new Miss JKUAT, will focus on encouraging students who have mental problems to speak out instead of turning to drugs. "Our plan is already underway. To start a new club at the University to serve partly, as peer counselors for those students who are having difficulties in their lives. Most students usually open up more to other students compared to counselors they do not usually interact with," said Ogada.

He further said he plans to hold various charity events and fitness campaigns aimed at creating awareness on health threatening diseases such as cancer and diabetes. His inspiration, he noted, was to be Mr. World Kenya in the near future. On her part, Wangeci played down the pressure that comes with the role saying she already feels comfortable having previously participated in other commercial pageants, but pointed out that, being Miss JKUAT felt special because one played an ambassadorial role.

She plans to advocate for talent exploration and mentorship of aspiring models to prove that education and talent can be done concurrently if one is well organized. She also wishes to push for more inclusion of the neglected minority in the modelling industry. “In a few years to come, I will be both a Civil Engineer and an internationally recognized model. As you may know, the modelling industry has been marred by negative controversies such as bribery and sexual exploitation. However, I plan to change all this. I want to push for equal opportunities for everyone, and especially for the disabled who are usually ignored,” said Wangeci. The reigning Miss JKUAT aspires to follow in the footsteps of her mentor, Ajuma Nasenyana, who is an internationally renowned model, and among the few who have graced the famous Victoria’s Secret and Carlos Mienes runways.

### Enhancing the Legume Value Chain in Kenya



*Prof. Ngumi (right) welcomes Prof. Hendrickx to JKUAT*

For the past three years, the Legume Centre of Excellence for Food and Nutrition Security (LCEFoNS) has endeavoured to enhance the legume value chain of the country. This comes in the backdrop of claims that legume farming is the answer to perennial food insecurity and economic distress facing local farmers. The project focuses on different stages along the value chain of legumes; from agricultural production, post-harvest storage and food processing to human consumption and its impact on nutrition and health.

While paying a courtesy call to the Vice Chancellor, Prof. Victoria Wambui Ngumi, January 9, 2018, the Joint Steering Committee of the Legume Centre of Excellence for Food and Nutrition Security led by Prof.

Marc Hendrickx (KU Leuven, Belgium) and Prof. Daniel Sila (JKUAT, Kenya) said they were impressed with the progress so far made and the collaborative nature of the post-graduate students under the project.

“I am confident with the competence level of the 7 PhD students and upon completion of their studies, the project will accord them infrastructural support to enhance their research work,” said Prof. Hendrick. Prof. Ngumi lauded the work the project has done so far and encouraged the team to come up with tangible research outputs and innovations that can be scaled down to the community. According to the Vice Chancellor, the outputs should not only improve the nutritional and health status of the country but also the economic status of legume farmers.

With the help of ICT, the Legume Centre of Excellence in Food and Nutrition Security plans to escalate the data collected and analyzed to all stakeholders of the legume value chain across the country. The data will be shared through tailored mobile applications developed under the project. LCEFoNS, funded to the tune of Euros 3735,000.00 (Ksh. 410 million), is a twelve year research project under VLIR-UOS initiative that brings together JKUAT and Belgian partners (Katholic University Leuven and Vrije University of Brussels) and comprises of four interrelated research projects.



*The LCEFoNS team pose for a group photo with Prof. Ngumi*

The first project focuses on legume production and management practices including breeding for easy to cook flatulence free varieties of high nutritional value. The second project delves into storage and processing of legumes for expedient products of high nutritional value. The third project focuses on impact of whole legume and legume derived foods on nutrition and health of vulnerable groups particularly children and women. The

fourth project is transversal throughout the project with the broad objective of reinforcing JKUAT's human and infrastructural capacity in order to explore the use of ICT in legumes as well as successfully apply and enhance use of such technologies in the specific context of agricultural research.

### **Student Wins Best Oral Presentation Award at AMSUN Conference**



*Ms. Wainaina: Best Overall Oral Presenter.*

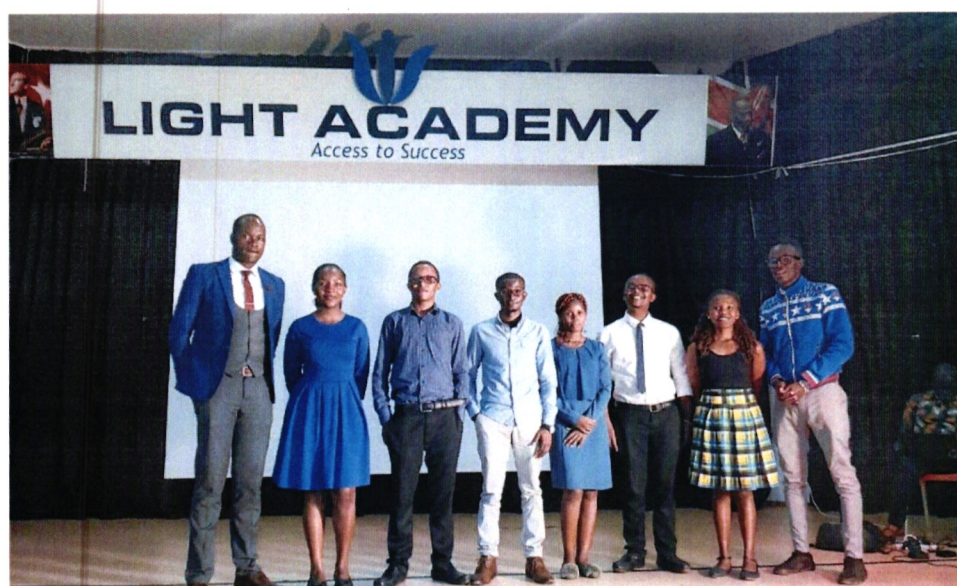
A student of Jomo Kenyatta University of Agriculture and Technology (JKUAT) in the School of Medicine, College of Health Sciences, has scooped the Best Overall Oral Presentation Award at the Association of Medical Students of

University of Nairobi (AMSUN) Annual Conference, held recently.

Jane Wainaina, a 6<sup>th</sup> year student pursuing Bachelor of Medicine and Bachelor of Surgery (MBCbB) emerged the best overall oral presenter, during the AMSUN annual conference held at the Light Academy International School, Nairobi. The theme of the conference was: *Medical Student and Research*. Ms. Wainaina made a presentation on Adherence to basic paediatric protocol guidelines on administration of feeds / fluids and antibiotics to neonates at Mama Lucy Kibaki University newborn unit. According to an elated Ms. Wainaina who said she was surprised to be declared the best presenter, “the guidelines on newborn management are developed from studies and therefore it is important to follow the established protocols for the best care of the patients,” says Ms. Wainaina

Ms. Wainaina is keen to sensitize the medical practitioners on the importance of adhering to the correct protocols for the wellbeing of the patients under their care. Her presentation was among the four oral presentations by JKUAT MBChB, Nursing and Pharmacy students. Other oral presentations were: Assessment of readmission rates in the paediatric ward at Thika Level Five University by Alvin Ndungi; Challenges in management and treatment outcomes among HIV infected adolescents and young adults in Mama Lucy Kibaki University by Grace Sagini and Decision-to-delivery interval of emergency caesarean sections and its effect on maternal and neonatal outcomes at Thika Level Five University by Peninah Machoka. The research projects were conducted during an innovative inter-professional research elective sponsored by the Health Professional Education Partnership Initiative (HEPI). HEPI is a collaborative grant that seeks to bring new dynamics in medical education and research, being implemented by the Colleges of Health Sciences of Jomo Kenyatta University of Science and Technology, University of Nairobi, Kenyatta University, Maseno University and University of Washington. The grant is supported by Fogarty International Center at the U.S. National Institutes of Health (NIH).

The Principal Investigators of the project are: Professor Ruth Nduati and Dalton Wamalwa from the University of Nairobi while Dr. Patrick Mburugu from the School of Medicine, Department of Child Health and Paediatrics and Dr. Drusilla Makworo from School of Nursing are leading the project's implementation at JKUAT.



*JKUAT students who participated in the conference.*

## Prof Uppal Delivers His 4th Public Lecture



*Prof. Uppal delivers his lecture*

Who invented calculus? The question was a major intellectual controversy between two scholars; Isaac Newton and Gottfried Leibniz, which began simmering in 1699. Both mathematicians took claim to discovering calculus. According to Prof. Surindar. M. Uppal, a Senior Professor in the School of Mathematical Sciences, calculus is a concept that underpins many of the greatest ideas about how the universe works. He revealed this during his fourth public lecture dubbed, ‘*Who Discovered Calculus? Newton or Leibniz?*’ delivered to students, faculty and the members of the public at the JKUAT Main Campus, Juja. “After the great invention of zero by Aryabhata Brahm-a-gupta in 628 AD which revolutionized the number system, the next marvelous invention was that of calculus which worked wonders in the world of mathematics,” attested Prof. Uppal. His lecture set out to give deep insights on the doggedly fought dispute in the world history of science between Newton and Leibniz. Some believe that the intellectual dispute was propelled by Newton’s pride, suspicious character, and reluctance to publish which collided with Leibniz’ naive optimism, arrogance, and his belief in “systems” as more valuable than inspiration.

After giving a brief history of the two scientists in relation to the actual discovery and publication of discovery, Prof Uppal concluded that the question of who discovered calculus will never be answered. He instead said, the world of science should appreciate both mathematicians for their contribution in the field, especially in mathematics and physics, and both men should have shared the honour of being the first to discover calculus just like John Napier and Burgi.



*Prof. Ngumi shares a light moment with Rose after she received her cheque. Looking on is Mr. Rabinder Uppal*

“In the seventeenth century, John Napier from Scotland and Burgi from Switzerland, discovered logarithms independently and both men were happy to share the credit for the discovery with no bitterness,” said Prof. Uppal. As a piece of history, the controversy serves as a lesson to the modern world that it is perhaps better for great minds to work together instead of trying to undermine each other to avoid stagnation and advancement in their fields. The lecture was delivered in memory of his late wife, Mrs. Krishna Uppal. A notable feature of these lectures, through the Mrs. Krishna Uppal Education Fund, is the support of needy students. This year, one JKUAT Bachelor of Surgery and Bachelor of Medicine student from Samburu County, benefitted from the fund. Rose Lengima, a fourth year student received Kshs, 150, 000 to support her university education. Rose aspires to be an excellent doctor, a role model in her community, especially to the young Samburu girls and a change agent in Samburu County. “It is my desire and dream to provide quality service to my people and to be a shining star, especially to the young people of Samburu, through my career,” said Rose.

The Vice Chancellor, Prof. Victoria Wambui Ngumi, paid a special tribute to the philanthropic nature of the Uppal’s family whose soft spot for education see them spend most of their life promoting the cause. “I am happy to report that this year, the support has been expanded to include an undergraduate medical student. Indeed, this is not a mean gesture. It takes serious commitment and selflessness to set aside funds towards this cause that many would not,” said Prof. Ngumi.



*From left: Mr. Rabinder Uppal, Prof. Uppal, Prof. Ngumi, Council Member Lengoiboni, and Prof. Wanjohi interact before the lecture*

Prof. Ngumi also urged other scholars to step up and give public lectures in their various fields of specialization. "I encourage you to take advantage of such public fora so that the public can get a feel of the caliber and quality of our products as a University." In attendance were Council Member, Gabriel Lengoiboni, Deputy Vice Chancellor in charge of Research, Production and Extension, Prof. Mary Abukutsa, former Vice Chancellor, Prof. Nick Wanjohi and Prof. Uppal's son, Mr. Rabinder Uppal.

### **JKUAT Experts Front Smart Learning Platform**



*Prof. Muliaro with some of the teachers during the study*

A survey by four researchers from Jomo Kenyatta University of Agriculture and Technology (JKUAT) on Smart Learning for Primary Schools in Kenya has established that, smart learning removed the over dependency of physical presence of teachers by making learning more fun, enjoyable as well as keep pupils busy in the houses away from the Covid -19 pandemic. The videos are now open for public access and are free to use.

The survey by Muliaro Wafula, Agnes Mindila, Teresia Kariuki and Duncan Adongo, largely involved the exploration of innovative ways of using light video they created using ThinkBoard Office Software and was carried out in 2017 and 2018. The study further discovered that smart learning helped change the negative attitude towards mathematics by motivating learners to study independently. The survey which was funded by JKUAT and JICA's Africa- ai -JAPAN project, entitled *Smart Learning for Primary Schools in Kenya: Content Delivery Innovation Prototype Learner Experience*, further observed that the digital content prepared by the Kenya Institute of Curriculum Development for schools was largely static and required to be transformed into multimedia format that is dynamic and interactive so as to catch and maintain the attention of the learners

This prompted the researchers to innovate the appropriate interactive digital multimedia content in light videos for the primary schools in Kenya. The innovative mechanism of creating such digital content for primary schools has now been established and needs further testing, evaluation and documentation so that it informs upscaling to the wider learning community. According to the researchers led by Prof. Muliaro, the director of JKUAT's ICT Centre of Excellence and Open Data (iCEOD), the positive results obtained clearly indicated support for improvement of learners by an average of 45 per cent. It further revealed that the concentration span generally improved for most pupils.

The study involved class eight mathematics pupils of JKUAT Primary School in Kiambu County representing urban set up, and Chesamisi Primary School of Bungoma County that represented the rural set up. Some of the feedback from the students engaged during the study was an affirmation that smart learning improves one's understanding of mathematics because it explained in an effective way that pupil can understand without any difficulties, it efficiently and effectively conveys new knowledge to learners, as well as helped understand better due to unlimited repetition than when they are taught by a regular teacher. The findings further revealed that, there was a possibility to rewind what one did not understand, and listen to it many times as necessary because smart learning was like a teacher who taught and if one did not understand, it could be repeated. Smart learning made learning maths fun and very enjoyable, has the best examples and methods, could make one know any formula one wanted, did not require a pupil to wait for the teacher, and that any pupil could use it anywhere and anytime if one did not understand any topic, among other reasons they provided.

On why those that were weak were able to improve in Mathematics, the pupils stated that what they learnt was able to be retained in their minds because the same was repeated many times, that there were some topics that had not been understood from face to face classroom lessons with teachers, and that the teachers in the videos gave explanations using clearer and simpler English that made it easy to understand.



*Pupils Learning using videos in a class without teachers*

As a result, the pupils achieved higher scores in mathematics than before, as well as that the method taught and offered them extra explanations.

#### **b) Financial Performance**

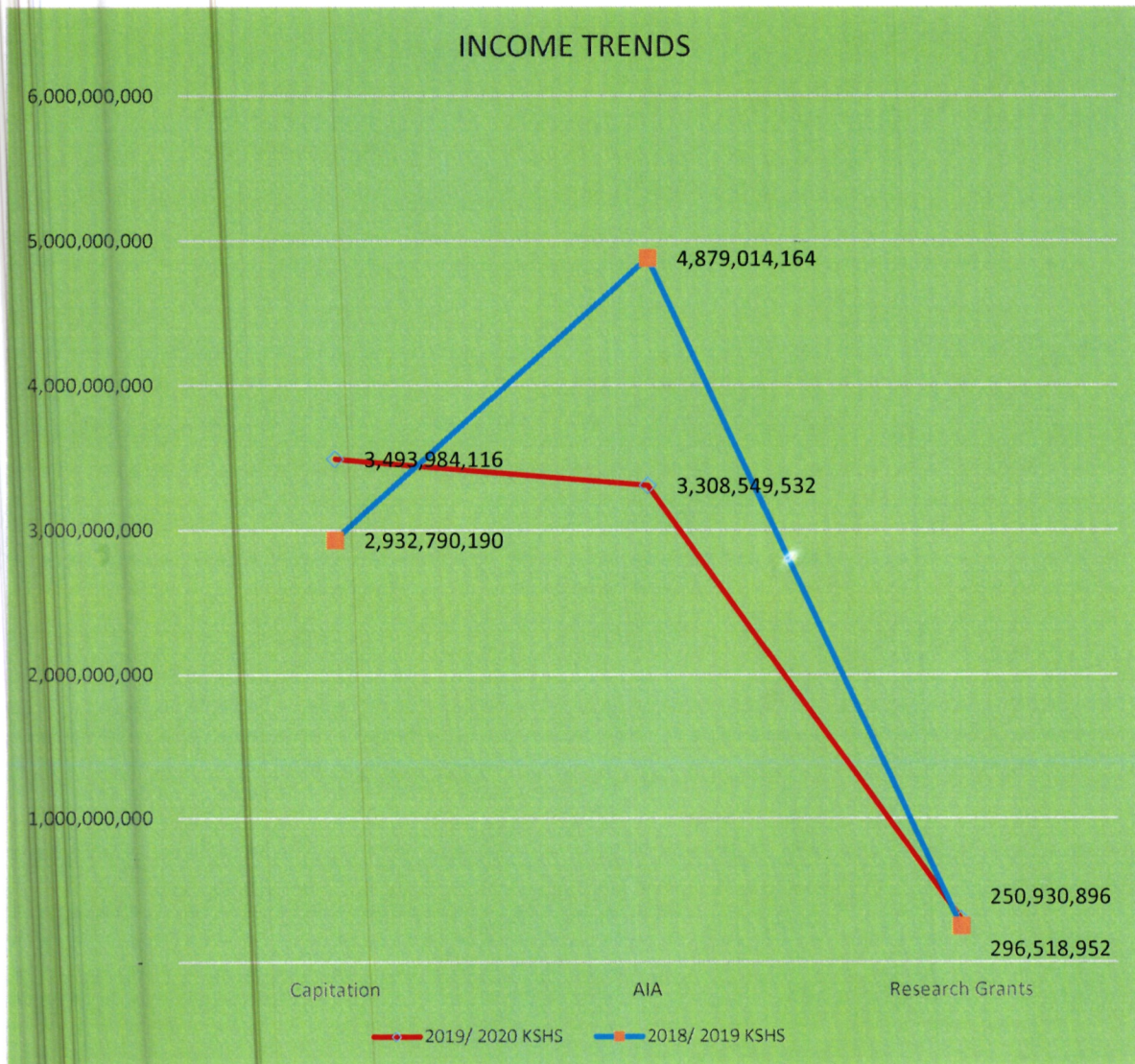
The University has reported a deficit of Kshs. 207 million in the year. The previous year's deficit was Kshs.57M. The major reason for the increased amount as compared to the previous year is the university closure as a result of the COVID19 scourge. This resulted in significantly reduced revenues as students were not in session. In the same period the University's administration and operational expenses decreased as a result of improved cost cutting measures.

The University is optimistic that future cash in-flows will improve upon full implementation of the Differentiated Unit Cost funding model by the Government. This will be favourable to the University as it offers highly technical and science-based courses which requiring heavy investment in equipment, teaching materials and equipment, laboratories, human resources, among others.

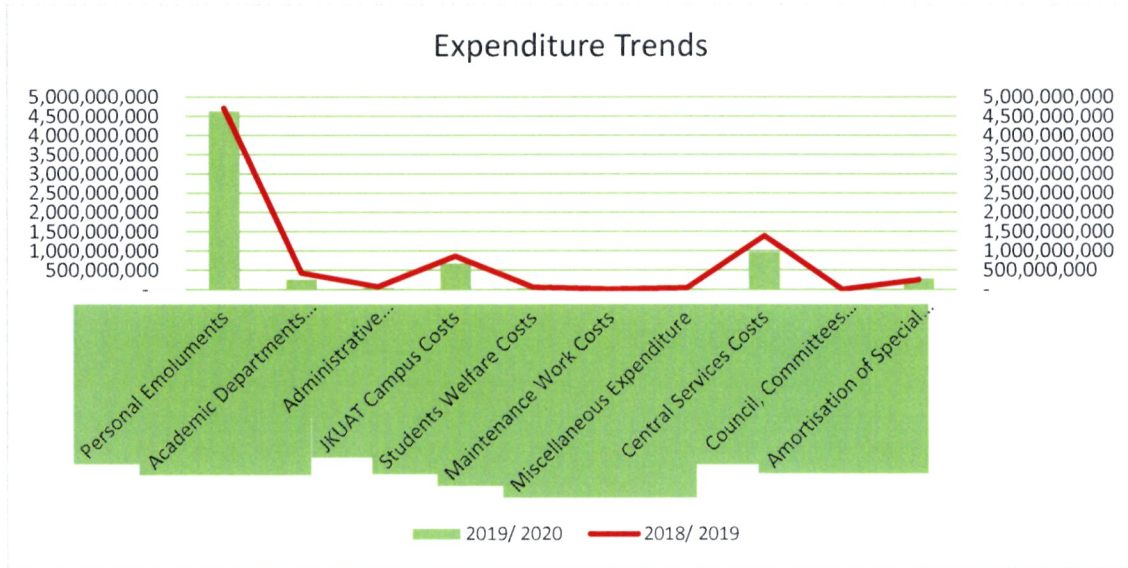
## Graphical Representation of the Financial Performance

### Income Trends

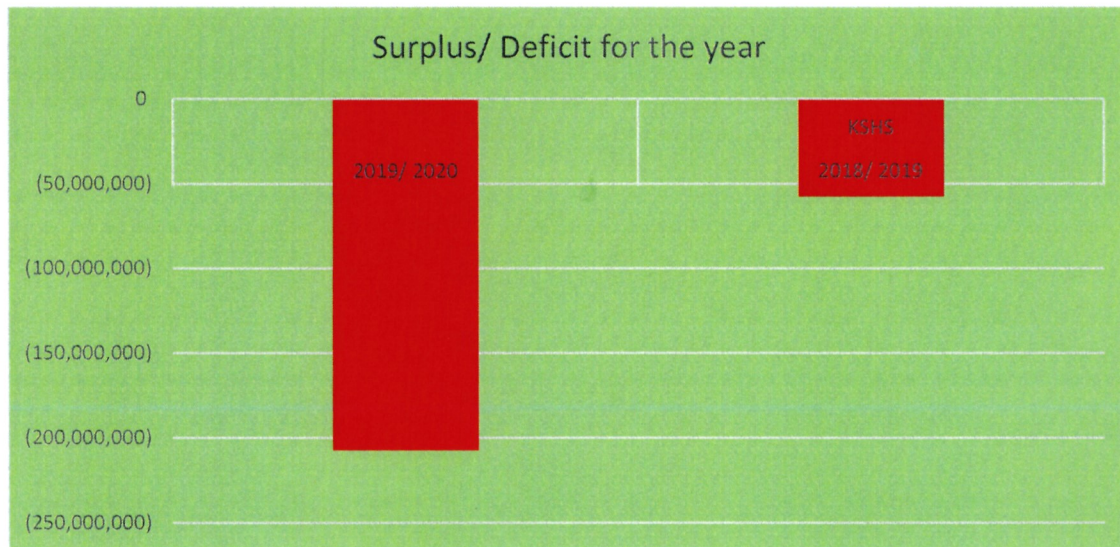
During the year 2019/2020, JKUAT received GoK recurrent grants transfer of **Kshs. 2,946,175,255** and collected **KShs 3,308,549,532** as Appropriation in Aid giving a cumulative total of **Kshs. 6,802,533,648** which was utilized to fund staff payroll and other operational costs. The following is a summary of the income JKUAT has received in the last two financial years:



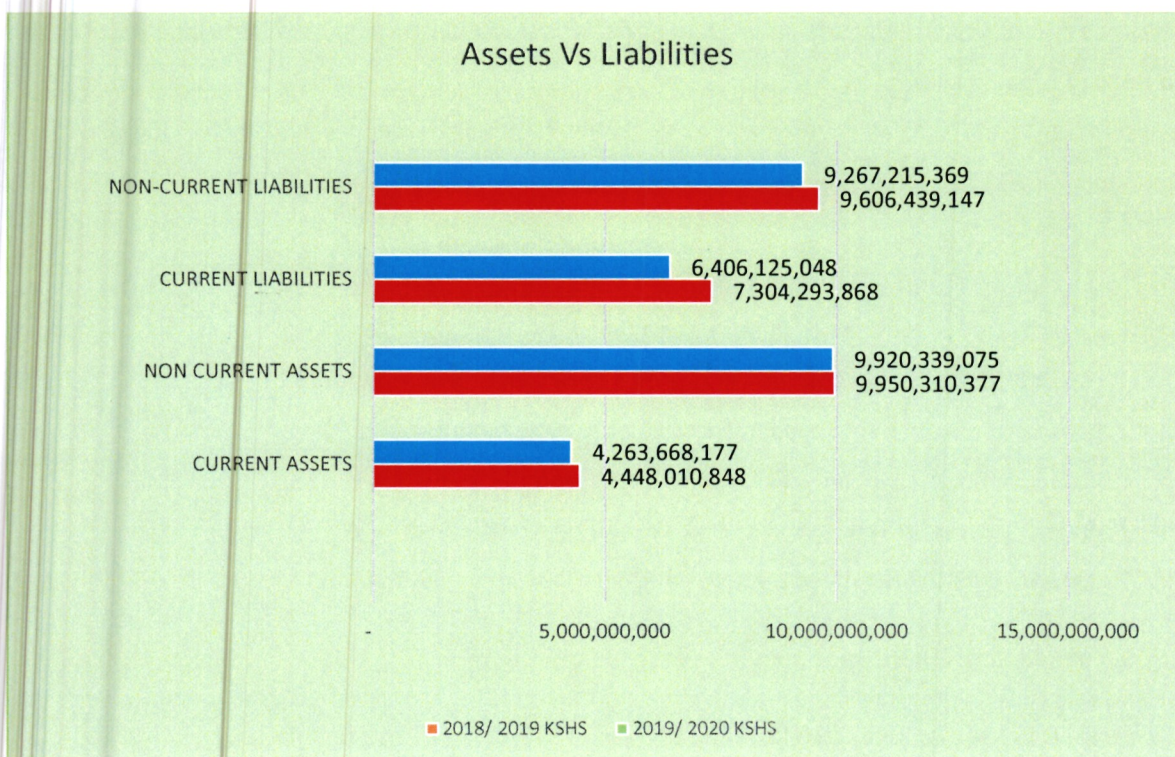
### Expenditure Trends



### Comparison of Surplus Vs Deficit levels



### Comparison of Assets Versus Liabilities



#### A) KEY PROJECTS AND INVESTMENT DECISIONS JKUAT IS PLANNING/ IMPLEMENTING

The main sources of JKUAT’s revenue for projects and investment decisions are the Exchequer from Government.

The following infrastructural projects were undertaken during the year;

- i. Construction of Administration Block B
- ii. Construction of the College of Human Resource and Enterprise Development Building
- iii. Construction of the College of Engineering and Technology Building
- iv. Renovation of the Student Centre
- v. Renovations to the Cafeteria

The College of Human Resource and Enterprise Development and College of Engineering and Technology Buildings will provide space for lectures, laboratories, offices and other learning facilities. The increase in the number of lecture halls in the University will help reduce the current shortage experienced by the University occasioned by increased demand for JKUATs academic programs. These efforts are aimed at increasing access to education by providing space and facilities for quality teaching, learning and research, which is in line with the Government of Kenya strategic objective of increasing access to University

education in support of Vision 2030. Extension of the Administration Building will ensure better administrative services are offered as this will be a more spacious and accommodative building, while the parking lot once complete will offer adequate parking to staff and students which has been a challenge at the University due to topology.

The water bottling plant is also anticipated to generate additional revenues and hence improve the University's much needed Appropriation in Aid.

### **Proposed Projects**

The following projects are in the Master Plan for the financial year 2020/2021

1. Proposed Centre for Information and Communication Technology
2. Proposed Centre of Excellence in Biotechnology Research Building
3. Proposed Entrepreneurship and Development Centre
4. Proposed Centre for Law, Science and Technology Studies
5. Proposed Construction of Perimeter wall round the University property

The start and completion of these projects is subject to allocation of funds by National Treasury.

### **B) MAJOR RISKS FACING THE UNIVERSITY**

The University's activities are exposed to a variety of financial risks including credit and liquidity risks, effects of changes in foreign currency and changes in market prices. The University's overall risk management framework focuses on unpredictability of changes in the business environment and seeks to minimize the potential adverse effect of such risks on its performance by setting acceptable levels of risk. The specific details of each risk component have been discussed in this report.

### III. CORPORATE SOCIAL RESPONSIBILITY

The University acknowledges her responsibility to the society by playing an active role on public issues.

As part of CSR, JKUAT participated in the following activities:

#### **JKUAT Partner with Kiambu County to Build Capacity for Covid-19 Management**



*Dr. Kabetu (right) explains the intubation process to a section of the trainees.*

Jomo Kenyatta University of Agriculture and Technology in partnership with Kiambu County government have completed a four-day training of health workers on management of critically ill COVID-19 patients at Thika Level 5 University. The training conducted between May 26-29, 2020, was in response to government's directive to make Thika level 5 University a special isolation center for COVID-19 patients, hence the need to prepare the special COVID-19 health care team on the safety procedures of handling the patients.

The participants are expected to furnish practical and scalable recommendations to their respective Universities on the necessary measures required to contain and manage COVID-19. Dr. Jackline Anthoga who is the head of JKUAT's Anesthesiology and Critical Care Department and also one of the principal trainers noted that "critical care which is a special field is currently experiencing a shortage of health care workers in anesthesiology and therefore necessitated the training before the University starts receiving patients".



*Mrs. Kamande poses a question during the question and answer session.*

The training focused on equipping the trainees with basic and critical skills such as monitoring patient progress through different phases of symptoms such as cough and fever, troubled breathing requiring oxygen and mechanical ventilation as well as weaning off a ventilator. The participants are expected to use the protocols and guidelines for COVID-19 management to ensure both their safety and that of their patients comes first. Rosemary Kamande, a nurse at Thika Level 5 lauded the training as a thoughtful initiative saying her confidence has shot up having been nervous about handling a COVID-19 patient.

“This training is very vital to us because we will be directly working with the patients. Now I know all the safety measures and I believe we are now ready to face this disease head on,” said Mrs. Kamande. She added that the training will also be beneficial post COVID-19 noting that equipment such as ventilators are always a necessity in any University but the expertise on handling them are limited.



*Training participants pose with their certificate of completion after the training.*

Among other key trainers was Dr. Mary Mwangi of Kenyatta University Teaching Referral and Research University who spoke extensively on critical care and ventilatory support of COVID-19 patients having been at the forefront of caring and managing the patients since the first case was confirmed in the Kenya. Other trainers were Dr. Charles Kabetu (JKUAT), Dr Eunice Ngatia (Gatundu), Dr. Linda Nguu (Kiambu), Ms. Eunice Chelogoi (JKUAT), Dr. Joan Wanyama (JKUAT) and Dr. Ruth Mbandi.

JKUAT Reaches Out, Develops a Strategic Plan for a School in Kwale



*Dr. Simba (right) hands over the Strategic Plan developed by JKUAT experts to Archbishop Kivuva of Mombasa Catholic Diocese*

Jomo Kenyatta University of Agriculture and Technology (JKUAT) continues to impact society positively with the latest move being the development of a five-year strategic plan for a primary school in Kwale.

Kichaka Simba Primary School became the latest beneficiary by adopting a five-year strategic plan developed by JKUAT experts. The Strategic Plan addresses the menace of teenage pregnancies, which has been identified as a key contributor to poor academic performance in rural schools.

While expressing his gratitude to JKUAT, Kichaka Simba Primary School headmaster Mr Japheth Matingi lauded the Strategic Plan by the University experts, which he said, would go a long way in actualizing the vision of the school that was aspiring to be a centre of leadership, performance and excellence. The concept, he said, sought to interrogate ways to bolster staff morale, and pupils' admission from the current 304 to 500 by 2023. The Mombasa Catholic Archbishop Martin Kivuva who delivered the plan at the school urged parents and teachers to empower pupils with skills that will enable them achieve excellent performance.

Dr. Fridah Simba, the director of Mombasa CBD Campus who presented the plan to Archbishop Kivuva on behalf of the University said the strategic plan allowed for more efficiency in all aspects of management.

#### **Varsity Introduces Sanitizers and Masks to Combat Covid-19**



*A sample of JKUAT's gel and liquid (spray) sanitizers which are rinse free and fast drying*

JKUAT has introduced two types of high quality hand sanitizers that are able to kill all germs and bacteria whose presence on our hands could provide a conducive environment for contracting the dreaded Coronavirus disease. The gel and liquid (spray) sanitizers which are rinse free and fast drying with moisture,

are made from ingredients levels approved by the World Health organization (WHO) and the Kenya Bureau of Standards (KEBS) specifications.

According to the researchers behind the product, Dr. Waudo Wambilianga who is the Director of the Chemistry Production Centre (CPC), and Prof. Patrick Kareru (both Chemists), the sanitizers will be produced, branded and packaged at CPC with the help of laboratory technologists. They said the University had the capacity to produce 1000 litres a day, though the quantity is likely to increase because of the interest so far shown by users. The product, they added, was aimed at providing a quick prevention of germs attack, especially in situations where water is not readily available.

Besides the production of hand sanitizers, CPC also makes; hand washing detergents soaps, disinfectants, beauty creams and lotions, as well as decorative paints, that the general public can place orders for purchase. Other complementary preventive measures undertaken by the University to support the Government's effort in combating Covid-19 is the production of the 3-layer washable and reusable masks. According to the team leader of the project Ms. Mary Muthui of the tailoring unit, her team can make about 1000 masks per day, although they have the capacity to make more depending on the demand.



*Ms. Muthui packs some of the masks.*

Commenting on the initiatives by researchers and student innovators, the Vice Chancellor, Prof. Victoria Wambui Ngumi said, JKUAT as an institution of higher learning has a repository of experts in various fields who can work collaboratively to offer solutions to problems affecting the society. Prof. Ngumi noted that the university was more than delighted to participate in providing solutions to the Covid-19 pandemic, through research and innovations.

The Vice Chancellor encouraged all the faculty and students for the commendable work and urged them to continue working collaboratively. She further assured them of the university’s support in coming up with viable solutions to the challenges facing the community and the country at large.

**Varsity Donates Relief Food Worth Kshs. 1 Million to Kiambu County**



*Dr. Nyoro gives his remarks during the donation ceremony. Looking on is Prof. Ngumi (left) and Kiambu Deputy Governor. Ms Joyce Ngugi*

Jomo Kenyatta University of Agriculture and Technology donated relief supplies to Kiambu County worth over Kshs. 1,000,000, Friday, June 26, 2020. The donation was a response to the call by the County Government for well-wishers to come forward and complement the County’s efforts in fighting the Corona virus scourge. The University’s relief supplies were towards the vulnerable families in the County whose livelihoods had been affected by the pandemic. They included 20 bags of 90 kgs maize flour, 30 bags of 90 kgs instant porridge flour, 4 bags of 90 kgs beans, 6 bags of 90 kgs green grams, and 37 cartons of prestige butter (10 kgs each).

While lauding JKUAT for their noble contribution, Kiambu County Governor, Dr. James Nyoro said for the county and country to succeed in curbing the pandemic, there was need for concerted efforts among all the stakeholders in the society. “It is a high time we realized that devolution is a participatory process and to succeed in service delivery we need all the players to play their part,” said Dr. Nyoro. Post Covid-19, Dr. Nyoro said his government will engage the university further and collaborate in economic empowerment projects such as aquaculture, agricultural value addition and poultry farming in a bid to improve the food security index of the county and curb unemployment especially among the youth.



*The VC is joined by the DVCs; Prof. Ikua (left) and Prof. Kwanza (right) as she hands over the donations to the Governor*

Pegged on the Memorandum of Understanding (MOU) existing between his County and JKUAT, the Governor acknowledged that the University was a Centre of Excellence in matters agriculture, technology and engineering adding that he will be seeking the expertise of the university to tackle the menace of solid waste management affecting the county.

On her part, Vice Chancellor, Prof. Victoria Wambui Ngumi said JKUAT was endowed with talented experts and professionals of repute and urged the County to leverage on the MOU signed between the two parties to come up with novel research outputs geared towards sustainable development in the county. Citing the Makueni Fruit processing plant, a brainchild of JKUAT researcher, Prof. Daniel Sila, Prof. Ngumi assured the Governor that with JKUAT, the county has a reliable partner especially in agribusiness. “Bwana Governor, as a University we are strong in matters agribusiness. Our Research, Production and Extension Division has been carrying out training to youth and women groups in the country focusing on agricultural

productivity skills, value addition, animal husbandry, agronomic, biogas production, making of detergents and shampoo, nutrition and entrepreneurial skill among others,” elucidated Prof. Ngumi.



*Prof. Ngumi assisted by Dr. Karugu (2nd right) donate the instant porridge flour pack to Dr. Nyoro. Looking on is the Deputy Governor, Ms. Ngugi*

She further informed Dr. Nyoro that the relief food was produce from the various University’s research farms in Likuyiani, Keiyian, as well as JKUAT demonstration farm in Juja, “where besides the agricultural training we impart to people in those areas, we also produce agricultural products to feed our students, as well as sell to the public through our marketing company – the Jomo Kenyatta University of Agriculture and Technology Enterprises (JKUATES).”

The Vice Chancellor was accompanied by Deputy Vice Chancellors; Prof. Bernard Ikuu (Administration), Prof. Jackson Kwanza (Finance), Managing Director JKUATES, Dr. Winfred Karugu, Director Research, Dr. Patrick Mbindyo, Chief Corporate Communication Officer, Dr. Hindzano Ngonyo and Ag. Chief Procurement Officer, Ms. Kellen Karimi, among other University staff.

## The Sparkling Classrooms Christian Union Built in Kasiluni!



*Rev. Dr. Wakaba (right) cuts the ribbon to officially open the new classes as the school administration witness.*

When Jomo Kenyatta University of Agriculture and Technology Christian Union (JKUATCU) went on an evangelical outreach mission in Ngomeni Division, Kyuso Sub County in Kitui County in 2009, they had no idea what was awaiting them in Kasiluni: dry and dusty, desolate, poverty stricken area that inspired little or no hope.

It was even grimmer for a handful of school children: their dreams for a better life through education, seemed dashed and interwoven with the appalling socio-economic circumstance of Kasiluni area. As the Ukambani winds blew the Kasiluni dust, so did the boys' and girls' prospects for a brighter future fade into obscurity.

Insecurity, lack of descent school, hunger and thirst for water were the hallmarks of life in Kasiluni, with school going children trekking 18 kilometers to the nearest school. Barring all odds and armed with the word of God, the JKUAT missionaries went to preach Christ to all at Kasiluni.



*The old structure that once housed the Headteacher's office (left) and the school store.*

What was initially an evangelical mission about ten years ago, slowly took a holistic turn of transformation, giving a face-lift to the once nondescript Kasiluni primary school to become a robust flourishing centre of spiritual nourishment and a beacon of academic pursuit for the local community, courtesy of the JKUAT Christian Union's evangelical mission.

Today, over 500 pupils and their parents at Kasiluni Primary School have every reason to thank God: through the efforts of the JKUAT Christian Union, the school has a new bloc of four sparkling modern classrooms – all constructed by the Christian Union with student-members drawn from various departments in JKUAT who applied their expertise during the implementation of the project: Architectural drawings, building and construction, electrical fittings, interiors, landscaping, project management among other tasks, were all done by the JKUAT students.

Speaking at the primary school during the opening ceremony, Tuesday, April 30, 2019, the JKUAT Dean of Students, Rev. Dr. James Wakaba who was represented the Vice Chancellor, Prof. Victoria Wambui Ngumi, as the Chief Guest, described the school's transformation as a manifestation of God's good work and thanked the community for partnering with JKUAT students, thus making the construction of magnificent classrooms a reality.

“Through the work of the Christian Union, we have worked for the glory of God,” Rev. Wakaba exalted, and encouraged the Christian Union to continue with transformative work because they went to Kasiluni with a mission of God to benefit the community.

Rev. Wakaba said many people had invested in prayer and extolled the pupils to “grow in stature, wisdom and in favour with God and to socialize positively, and forge good friendships.” The CU Chairperson, Isaac Mwaura praised the CU members for their contribution and sacrifices made in many ways to actualize the project during his tenure in office and encouraged parents to support pupils and enable them to transform the region through education. “Look up to God in whatever you aspire to do,” he said. The School Head Teacher, Mr. Lawrence Kimwele described the occasion as “a big day for Kasiluni Primary School” which he said, started in 2007 with only 17 pupils with the pioneer class sitting the KCPE in 2015, registering a mean score of 257 points.

Mr. Kimwele hailed the commendable work of the JKUAT CU members without whose partnership with the community, Kasiluni school would not be what it is today. “The students have been of great help to us even in construction of classrooms which has eased congestion, enhanced a conducive, hygienic learning and teaching environment for the pupils and teachers,” he stated.



*Rev. Dr. Wakaba plants a commemorative tree after officiating the opening the classrooms.*

“The Christian union has done a great job in this school. The contribution of JKUAT to the development of this school is 70% and we are very excited. The administration block we have was possible through the connection of the JKUAT students. We were using mud wall structure. Today, the situation is different,” stated the school head.

“The two Early Childhood Development classes we have was through the intervention of the Christian Union. They managed to reach out to other stakeholders including the ministry who helped us,” the Teacher described the area as prone to poverty and bandit attack from Tana River. The coming on board of JKUAT, he explained, has helped to stabilize the area.

Mr. Kimwele enumerated the contribution of JKUAT students which took various forms such as; volunteer teachers, mentorships, recruitment of teachers and payment of their salaries, annual evangelical missions, sponsorship of needy students, lighting the school through purchase and installation of solar power system worth Ksh. 500,000. The solar system, the head teacher said, rescued his school from total darkness.



*The new block that houses four classrooms constructed by the JKUAT Christian Union.*

Since then, the school has been performing well. It registered the best performance in 2016 when it led in Kyuso Sub County, with a mean score of 286. “We thank the JKUAT leadership whose support has been instrumental to the Christian union students’ activities in this school and we are very appreciative and we feel humbled,” said, Mr. Kimwele.

Area Curriculum Support Officer, Joseph Mbuvi acknowledged that the support to the school has given it “a friendly learning and teaching environment that has raised Kasiluni Primary School as one of the public schools in Ngomeni area that has upheld high academic standards” and urged parents to support learning by addressing the problem of pupils’ absenteeism.

Mr. Fredrick Kimanzi, the School Board Chairman, said, “JKUAT has transformed this school and the life of pupils. The challenges have been many and you came at the right time. May you prosper wherever you shall go.”

The JKUSA President, Clinton Osoro and former External Affairs Secretary and reigning Miss Kisumu County, Stella Ageya spoke at the function. Mr. Osoro hailed the Christian Union’s amazing work and pledged to rally JKUASA leadership to support such noble initiatives through the JKUSA subsidy to societies and associations at JKUAT, while Stella urged pupils particularly the girls to focus on their education.

While Kasiluni primary school still needs more support, the JKUAT Christian Union has already put the school on a path to “Becoming the Best,” in consonance with the school motto!

## Varsity Holds Engagement Forum with Youth and Women Groups



*Prof. Ngumi engages the leadership of the groups ahead of the forum. Looking on is Dr. Kihato (right)*

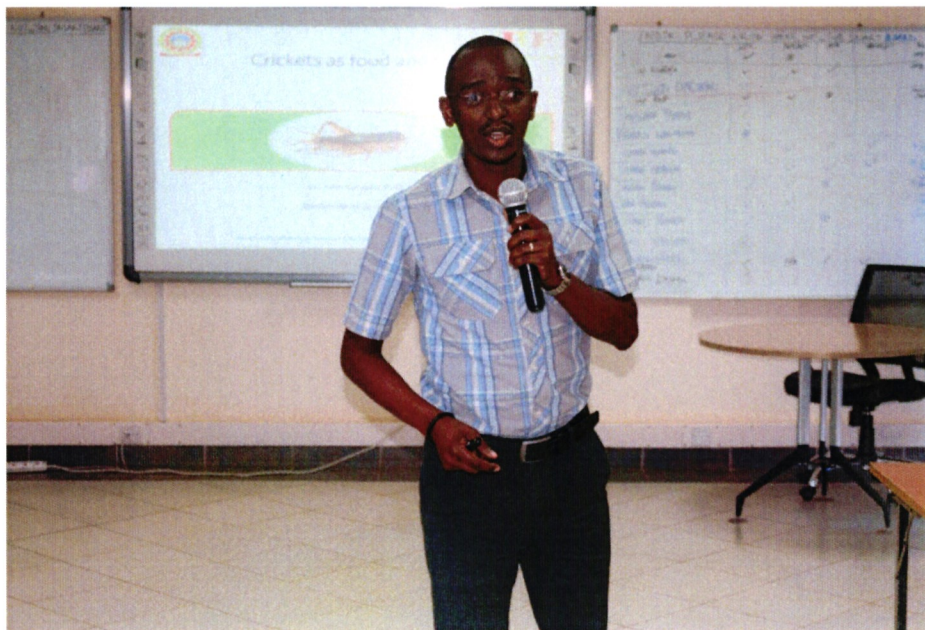
It is an unfortunate fact that despite massive advancement in civilization, both women and youth still have very little access and control of resources, and are often excluded from decision making processes. And yet, we cannot optimize our growth potential when half of the society is not actively involved.

What better place to start the crucial process of reversing this retrogressive trend than institutions of higher learning? Universities are uniquely positioned, owing to the fact that a lot of research, innovation and technological efforts are geared towards transforming communities. To this end, Jomo Kenyatta University of Agriculture and Technology hosted Youth and Women Self-Help groups, for an engagement forum geared towards enhancing greater University-community partnership for a holistic and economically viable society.

The forum, held, February 13, 2020, brought together a total of 70 participants drawn from Kiambu, Kirinyaga, Meru, Isiolo, Vihiga, Laikipia, Nakuru, Murang'a, and Nyandarua counties. The day long forum was facilitated by the Department of Engineering Workshops, led by the Manager, Dr. Peter Kihato, in partnership with other departments in the University, and Inooro FM as a strategic Media partner.

Complementing what the University is already doing to empower communities, the forum aimed at strengthening this partnership, especially in regards to Food Security, Entrepreneurship and Technology Transfer. While engaging the leadership of the groups earlier before the start of the forum, the Vice Chancellor, Prof. Victoria Wambui Ngumi, informed them that the University has been in the forefront in promoting women and youth empowerment in many ways including trainings and empowerment fora. In her opening remarks at the forum, Prof. Ngumi commended the groups for taking an initiative towards optimizing the capacity of their enterprises for enhanced livelihood improvement among women and youth. "I assure

you that you have a worthy and reliable partner in JKUAT. As a University, we are ready to walk with you in all your endeavours particularly socio-economic empowerment,” she further opined. The interactive engagement entailed presentations from various scholars and lecturers, a Question and Answer session, and a tour around the University to relevant departments the groups wished to partner with.



*Dr. Kinyuru makes his presentation at the forum.*

Eng. B.K Kariuki, the Director, Directorate of Intellectual Property Management and University-Industry Liaison (DIPUIL) made a presentation on the importance of patenting various innovations, and how the University could support the groups in this regard. Dr. John Kinyuru, from the Department of Food Science and Technology, made a presentation on Food Production and Value Addition, with a specific focus on Cricket farming.

The University will be working towards facilitating technology transfer to the communities, the sharing of resources, and training of women and youths to impart them with relevant vocational skills.

## **JKUAT Alumni Avail 18 Million to Mitigate Locusts and COVID-19 Effects**



*Brian Bosire*

Two JKUAT alumni, Brian Bosire and Evans Wadongo have, through their respective companies, partnered to avail a total of Kshs 18 million worth of technical support to bolster the resilience of the country's agricultural sector in the wake of COVID-19, as well as fight locust invasion in East Africa. Bosire and Wadongo are both graduates of Electronic and Computer Engineering from JKUAT's College of Engineering and Technology (COETEC), having graduated in 2016 and 2009 respectively. Both graduated with honours.

Brian Bosire is the founder of *UjuziKilimo*, a company that leverages on technology and data to spur quality modern farming in Africa. Through precision farming, data analytics, interactive SMS, and climate smart farming, *UjuziKilimo* believes that the future of Africa is in Agriculture, and technology is the conduit to that future. Transforming the small holder farmers into a knowledge-based community connected by *UjuziKilimo* technologies is at the center of making that agricultural revolution come true. Brian is also the founder of Hydrologistics Africa, a virtual water network operator.



*Evans Wadongo at the 2018 Goalkeepers event*

Evans Wadongo on the other hand is a social entrepreneur and an angel investor, who is a founding partner at Wadson Ventures Ltd. The company offers mentorship, incubation, acceleration, and funding to African entrepreneurs who are solving critical issues affecting Africans in their own communities and regions. Wadongo, the 2010 recipient of the prestigious *CNN Hero of the Year Award*, is also the Co-founder of Greenwise Energy, as well as the Sustainable Development for All (SDFA-Africa), a philanthropic venture. During the unveiling of the \$17,400 partnership with Wadson Ventures, Brian Bosire urged young people to aim at being useful and resourceful, especially at these uncertain times. He emphasized that the data driven interventions which are made possible by the fund, will be geared towards facilitating swifter agricultural production recovery. “Continued use of non-data driven decisions on food production by economic planners, related stakeholders and policy makers, has the potential to exacerbate food crisis during the forthcoming post-COVID-19 period,” he warned.

The Coronavirus pandemic and locust invasion in East Africa have both instigated untold suffering to local farmers ranging from supply chain disruptions, to crop destruction. This has led to massive losses and uncertainty as far as food security is concerned. Thanks to the joint initiative with Wadson Ventures, *UjuziKilimo* will provide intelligent agronomy information to eligible smallholder farmers affiliated to select co-operative societies, county and national government agencies. Co-operatives and farmers interested in receiving the free support are directed to sign up by visiting [www.ujuzikilimo.com](http://www.ujuzikilimo.com) for further guidance.

In her reaction to the efforts being made by the alumni, the University Vice Chancellor Prof. Victoria Wambui Ngumi expressed her delight at what she termed a futuristic and timely solution to a problem that hits humanity at its very core; food insecurity.

“As an institution that premiered as a hub of Agriculture and Technology, we’re not only happy that our holistic academic approach is paying off through the impact our graduates are making in the society, but also that these two get to contribute specifically towards what I can call the nerve center of our existence, which is food security.”

“Both Evans Wadongo and Brian Bosire are already accomplished entrepreneurs in their own right, with several awards and accolades to their names, and I’m just glad they are not settling just yet. We are proud of their efforts, and I hope their hunger and fire for African progress never flickers off,” concludes Prof. Ngumi.

### **JKUAT kicks-off Tree Planting Exercise to Compliment Government’s Campaign**



*Prof. Abukutsa (right) launches the tree planting exercise. Looking on is Prof. Kenji ( with cap) and JKUAT’s Farm Manager, Mr. Joseph Sang.*

Jomo Kenyatta University of Agriculture and Technology (JKUAT) has kicked off a tree planting exercise as part of its strategic campaign to increase its forest cover from the present 3 % to 10% around the University’s environs. The tree planting exercise to be carried out around the University and its environs, which started Friday, November 8, 2019 is in line with a directive from Ministry of Education (State Department of University Education) aimed at supporting afforestation in the country. While launching the exercise, JKUAT Vice Chancellor, Prof. Victoria Wambui Ngumi, lauded the government’s plan saying the initiative will ensure the sustainability of Kenya’s natural ecosystems, particularly water which is an important component that determines the livelihood of living things.



*A section of the students planting trees*

Prof. Ngumi stated that the University was committed to compliment Government efforts geared towards the restoration of the land cover occasioned by what she described as "terrible ecological experiences it has gone through in the past due to human forest destruction."

In a speech read on her behalf by the Deputy Vice Chancellor, Research Production and Extension, Prof. Mary Abukutsa, the Vice Chancellor challenged all individuals to extend the responsibility to their homes in order to contribute to the national goals. "I therefore challenge each one of you to make tree planting your hobby even in your own homes to plant trees as a way of increasing the country's forest cover which is still quite low. With every Kenyan planting a tree, the forest cover will increase from the current 7% to at least 15 % by 2022 as is envisaged by the Kenya National Environmental Management Authority," said Prof. Ngumi. JKUAT's Environment Management Association (JEMA) Patron, Prof. Mwangi Kenji expressed his desire to plant more trees around the University even after meeting the target of 5, 000 trees set by the University. This, he said, will ensure that most seedlings grow to maturity.

Mr. Newton Kemboi, a Third year student pursuing Telecommunication Engineering at JKUAT, and a member of JEMA, urged individuals to make environmentally cautious decisions that will help in rehabilitating it to its previous state. Students' environmental clubs that participated in the tree planting exercise included: JEMA, Society of Microbiology Students Rotaract, Society of Pharmacists, Society of Chemists, Society of Engineering Students, Mining Engineering Partnership and Kenyatta University Environmental Club.



*Students carry seedlings during the tree planting exercise*

### **Students Health Drive Week Commences**



*Prof. Kinyua makes his remarks during the opening ceremony*

Jomo Kenyatta University Students Association (JKUSA) on Wednesday November 6, 2019 commenced a three-day health drive initiative aimed at easing the financial burden of medical checkups to students, while also bringing closer to the university free specialized medical consultations. Among the services provided are screening services for blood sugar, blood pressure, body mass index assessment, cervical and breast cancers, as well as promoting health literacy through lifestyle and nutritional counselling. The event which was actualized through the Association's Health, Catering and Accommodation (HCA) docket brought on board a number of corporates that offered free services to students and discounted rates-where further management was necessary.



*A student takes a HIV/AIDS test in one of the stands*

The Deputy Vice Chancellor, Academic Affairs, Prof. Robert Kinyua who officiated the opening ceremony on behalf of the Vice Chancellor, Prof. Victoria Wambui Ngumi, lauded the Association for the compassionate act saying, the move is in line with the Biblical teachings that call on all of us to be mindful of others welfare. Prof. Kinyua who was impressed by the projected number of students (5000) who are set to undergo the medical checkups said it will complement the government's Universal Health Coverage (UHC) and ensure a healthy majority with the youth comprising of 40% of the total population. "With the government set on realizing Universal Health Coverage (UHC) as espoused in the Big Four Agenda, it is imperative that we augment the efforts by promoting the health of the younger generation who make up to 40% of the national population," said Prof. Kinyua.



*Prof. Kinyua (center) interacts with the JKUSA officials shortly after the opening ceremony*

HCA Secretary Naomi Nyambura said the initiative was meant to help students make acute decisions about their health status which directly translates to both academic productivity and lifestyle awareness. The initiative which was concluded on Friday, November 8, 2019 was in partnership with Ryculture Health and Social Innovation, a social enterprise founded by an alumni of the University to champion for inculcating a culture of active citizenship and social responsibility for health among the youth

#### **JKUAT launches ambitious tree planting drive**



*Tour drivers from various tour operators plant tree seedlings after attending a one day workshop on how to deal with guests in the parks and other places.*

Jomo Kenyatta University of Agriculture and Technology (JKUAT) has launched a tree planting exercise as part of its strategic campaign to increase its forest cover from the present three percent to 10 percent around the institution’s environs. The initiative is in line with a directive from the Ministry of Education (State Department of University Education) aimed at supporting afforestation across the country.

While launching the exercise, JKUAT Vice Chancellor Victoria Wambui Ngumi praised the government’s plan saying it will ensure the sustainability of Kenya’s natural ecosystems, particularly water.

### **Milking healthy profits from goat farming**



*Rosemary Juma with her goats in Chaka, Kiini East. An episode with arthritis, pushed her into goat farming.*

A few years ago, Rosemary Juma noticed something strange happening to her body. Every morning, when she woke up, she would feel stiffness in her joints and it would be accompanied by immense pain. After several visits to the doctor, she was diagnosed with arthritis. “I was scared. I was not even 50 years yet. I also had memory loss on many occasions. It pained me that I was young yet I had symptoms of diseases associated with the old,” she says. Medics advised her to change her lifestyle and embrace healthy eating. One of the recommendations was to start drinking goat milk. This advice was timely and it changed her life.

### **Health benefits**

“I realized that my symptoms became less severe the more I took goat milk. Then I started noticing that there were mornings when I would wake without any pain. I was improving,” she says. She however says buying the daily intake of goat milk was a big challenge. She had just moved from Embu to her current home in Kiini, Nyeri County, and had not yet found an income-generating activity that would allow her to buy goat milk every day. “It is more expensive than cow milk and not many people have it. There were days I had the money, but I could not even get it,” she says. To solve that issue, she decided to start rearing her own goats. That was in 2012, and lack of access to internet and other forms of media meant that she was wading into the unknown through experimenting and reaching out to other farmers to ask for help. “I started with a

few goats and I would dread the thought of them getting sick or any situation that I did not know how to handle coming up,” she says. Her anxiety was relieved when she got a call from her neighbor Anastacia Wanjiru who was also a farmer and chairlady of Mathira Women's Group.



*Rosemary Juma with her goats in Chaka, Kieni East.*

“She had good news. **JKUAT** was looking for women farmers who wanted to be trained on best practices in goat-farming in a bid to improve their living standards,” she says.

She was elated. During the training, she was taught how to clean the structure where she kept her animals to prevent diseases. The training also focused on chicken- and rabbit-rearing for profit and simple record- and book-keeping. Wanjiru, who has since become a trainer of trainers says for long, women in the area navigated through hard times that small scale farmers face without guidance.


“Most of the women in villages engage in agribusiness because it can easily be combined with other income-generating activities, especially if the farming is on a small scale. Sadly, there is a lot of potential in growing such farms but we never had any training opportunities until JKUAT came to the rescue,” she says. Joan Mugambi, head of extension services at Jomo Kenyatta University of Agriculture and Technology (JKUAT) who coordinated the programme says they partnered with different organizations and identified women who showed potential. “There are many women who thirst for knowledge and we decided to take it to them. The main criteria for choosing the beneficiaries was identifying the ones in a group so that they can share the knowledge with the rest through a structured system,” she says.

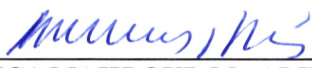
It has been seven years since they were trained, and Juma has improved her farm tremendously.

Her goats have multiplied and she now gets goat milk every day. She uses some of the milk to feed her family and sells the rest. During the festive season and major holidays, she sells some of her goats to those hosting friends and having parties. She has faced some challenges in the past. For instance, two years ago, four of her goats were stolen as they grazed. “High poverty levels here make farmers a target, especially

from young men who are jobless and are looking for quick money,” she says. To boost her income, she also keeps kienyeji chicken and says the training from JKUAT taught her the basics like how to immunize her chicks. “There are days when farmers in this region would lose chicken to diseases such as coccidiosis which is very common,” she says. Wanjiru says more than 100 women have so far benefited from the training, as some of those who were trained became trainers and have been moving around the country encouraging upcoming agriprenuers not to give up. “We now have a platform where we can talk about issues affecting our lives as farmers, including marketing our products which is a great challenge here,” she says. She adds that being in the women's group did not only make them right candidates in the county for the training, but it also strengthened their bond and now they even act as potential customers to each other.

“We all farm different things and we buy from each other. We are always consulting on what we have in excess and if there is anyone who needs it,” she says. Farming is rewarding and Juma is already tasting its fruits and is building a house, with the money she gets from farming and selling clothes at Chaka market. Learning to balance her books and apply for loans were some of the skills that they were taught and have helped her transform her business. “Women can do a lot of things if you give them the right skills and make them believe in themselves. There is no limit for them,” Mugambi says, reinforcing what Joan of JKUAT says was one of the mandates they had when they formulated the training. They wanted to instill self confidence in the farmers while equipping them with skills.

  
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**PROF. VICTORIA WAMBUI NGUMI Ph.D.**  
**VICE CHANCELLOR**

  
\_\_\_\_\_  
**AMB. (ENG.) MAHBBOUB MAALIM MOHAMED**  
**CHAIRPERSON OF THE UNIVERSITY COUNCIL**

## **VII. STATEMENT OF JOMO KENYATTA UNIVERSITY COUNCIL MEMBERS RESPONSIBILITIES FOR THE YEAR ENDED 30 JUNE 2020**

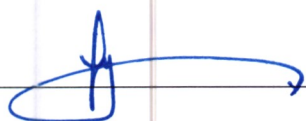
Jomo Kenyatta University of Agriculture and Technology is required to prepare statements, which give a true and fair view of the state of affairs of the University as at the end of the financial year, and of its surplus or deficit for that year. The University Council is required to ensure that the University maintains proper accounting records which disclose with reasonable accuracy the financial position of the University. Council is also responsible for safeguarding the assets of the University.

Council accepts responsibility for the financial statements, which have been prepared using appropriate accounting policies supported by reasonable and prudent judgments and estimates, consistent with previous years and in conformity with International Public Sector Accounting Standards. Council is of the opinion that financial statements give a true and fair view of the state of financial affairs of the University as at 30 June 2020 and for its surplus for the year then ended.

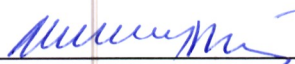
Council further confirms the accuracy and completeness of the accounting records maintained by the University, which have been relied upon in the preparation of the financial statements, as well as on the adequacy of the system of internal financial control.

Nothing has come to the attention of the Council that the University will not remain a going concern for at least twelve months from the date of this statement.

This statement if approved by Council and is signed on its behalf by:



**PROF. VICTORIA WAMBUI NGUMI, Ph.D.**  
**VICE CHANCELLOR**



**AMB. (ENG.) MAHBOUB MAALIM MOHAMED**  
**CHAIRPERSON OF THE UNIVERSITY COUNCIL**

VIII

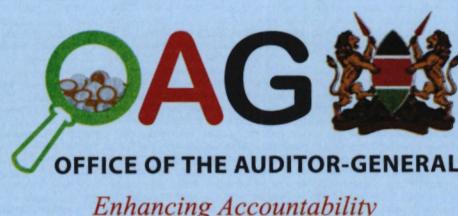


**OFFICE OF THE AUDITOR - GENERAL**

**REPORT OF THE AUDITOR-GENERAL ON JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND  
TECHNOLOGY FOR THE YEAR ENDED 30 JUNE 2020**  
REPORT ON THE FINANCIAL STATEMENTS

# REPUBLIC OF KENYA

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## **REPORT OF THE AUDITOR-GENERAL ON JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY FOR THE YEAR ENDED 30 JUNE, 2020**

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### **REPORT ON THE FINANCIAL STATEMENTS**

#### **Qualified Opinion**

I have audited the accompanying financial statements of Jomo Kenyatta University of Agriculture and Technology set out on pages 1 to 40, which comprise the statement of financial position as at 30 June, 2020 and the statement of financial performance, statement of changes in net assets, statement of cash flows and statement of comparison of budget and actual amounts for the year then ended, and a summary of significant accounting policies and other explanatory information in accordance with the provisions of Article 229 of the Constitution of Kenya and Section 35 of the Public Audit Act, 2015. I have obtained all the information and explanations which, to the best of my knowledge and belief, were necessary for the purpose of the audit.

In my opinion, except for the effect of the matters described in the Basis for Qualified Opinion section of my report, the financial statements present fairly, in all material respects, the financial position of the Jomo Kenyatta University of Agriculture and Technology as at 30 June, 2020 and of its financial performance and its cash flows for the year then ended, in accordance with International Public Sector Accounting Standards (Accrual Basis) and comply with the University's Act, 2012 and the Public Finance Management Act, 2012.

#### **Basis for Qualified Opinion**

##### **1. Undisclosed Material Going Concern Uncertainty**

The University reported a deficit of Kshs.207,494,250 compared to a deficit of Kshs.57,728,576 reported in the previous financial year. Further, the statement of financial position as at 30 June, 2020 reflects current liabilities amounting to Kshs.7,304,294,068 while the current assets amounted to Kshs.4,448,010,848 resulting to a negative working capital of Kshs.2,856,283,220. The University was, therefore, unable to meet its financial obligations as and when they fall due.

In particular the University was unable to remit pension deductions and contributions by employer, Pay As You Earn (PAYE) tax and other third-party deductions from employees of Kshs.1,851,328,600, Kshs.1,996,554,592 and Kshs.243,803,101 respectively totalling to Kshs.4,091,686,293. Further, the University has long outstanding balances due to general suppliers and other contractors of Kshs.145,310,940 which have been

outstanding for more than one (1) year. In addition, the University has been unable to pay audit fees of Kshs.15,048,000 for audit services offered over five (5) years.

In the circumstances, the University is technically insolvent and its continued operations as a going concern will depend on the continued support from the Government, donors and creditors. The material uncertainty relating to going concern has not been disclosed in the financial statements.

## **2. Long Outstanding Receivables**

As disclosed in Note 10 to the financial statements, the statement of financial position reflects trade and other receivables balance of Kshs.3,820,604,198 as at 30 June,2020. The balance includes long outstanding receivables totalling Kshs.136,325,967 that have been outstanding for more than three (3) years. The balance also includes student debtors of Kshs.3,375,860,409 out of which debts totalling to Kshs.1,096,788,649 have been outstanding for more than one (1) year. Management did not disclose measures put in place to ensure the long outstanding debts are recovered.

Under the circumstances, the accuracy and recoverability of debtors amounting to Kshs.1,233,114,616 could not be confirmed.

The audit was conducted in accordance with International Standards of Supreme Audit Institutions (ISSAIs). I am independent of the Jomo Kenyatta University of Agriculture and Technology Management in accordance with ISSAI 130 on Code of Ethics. I have fulfilled other ethical responsibilities in accordance with the ISSAI and in accordance with other ethical requirements applicable to performing audits of financial statements in Kenya. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified opinion.

### **Key Audit Matters**

Key audit matters are those matters that, in my professional judgment, are of most significance in the audit of the financial statements. There were no key audit matters to report in the year under review.

### **Other Matter**

### **Budgetary Control and Performance**

The statement of comparison of budget and actual amounts reflects final revenue budget and actual revenue on comparable basis of Kshs.8,454,246,384 and Kshs.6,802,533,648 respectively resulting in under-performance of Kshs.1,651,712,736 or 20%. Similarly, the University spent Kshs.7,010,027,898 against an approved budget of Kshs.8,447,559,928 resulting to an under-expenditure of Kshs.1,437,532,030 or 17% of the budget. Management attributed the shortfall in revenue collection to challenging business environment brought about by the Covid-19 pandemic. The underfunding and underperformance affected the planned activities and may have impacted negatively on service delivery to the public.

# REPORT ON LAWFULNESS AND EFFECTIVENESS IN USE OF PUBLIC RESOURCES

## **Conclusion**

As required by Article 229(6) of the Constitution, based on the audit procedures performed, except for matters described in the Basis of Conclusion on Lawfulness and Effectiveness in use of Public Resources section of my report, I confirm that, nothing else has come to my attention to cause me to believe that public resources have not been applied lawfully and in an effective way.

## **Basis for Conclusion**

### **1. Officers in Acting Position**

Examination of payroll and human resources records revealed thirteen (13) officers had been appointed in acting capacity and paid acting allowances for more than six (6) months. This is contrary to Section 34(3) of the Public Service Commission Act, 2017 that states that an officer may be appointed in an acting capacity for a period of at least thirty days but not exceeding a period of six months. No explanation has been provided by Management on why the posts have not been filled or the officers confirmed to the posts.

In the circumstances, the University Management is in breach of the Law.

### **2. Non-Compliance with National Cohesion and Integration Act, 2008**

Review of staff data indicated that the University had 45% of its staff members from one ethnic community. This is in contravention of Section 7(2) of the National Cohesion and Integration Act, 2008 which requires that no public establishment shall have more than one third of its staff from the same ethnic community.

In the circumstances, the Management is in breach of the law.

### **3. Proposed Erection of Perimeter Wall**

As previously reported, the statement of financial position reflects a balance of Kshs.9,482,426,374 under property, plant and equipment which, as disclosed in Note 8 to the financial statements, includes an amount of Kshs.492,591,289 in respect of work in progress. Included in the latter balance is an amount of Kshs.50,698,799 relating to a contract entered into in 2012 for the proposed erection of a perimeter fence along the road leading to the University main entrance at Juja at a contract sum of Kshs.68,836,283. A review of the project status and physical verification of the project in December, 2020 revealed that the fence stalled at foundation level even though a total of Kshs.50,698,799 or approximately 73.6% of the contract sum had been paid at the time of the audit.

Under the circumstances, the amount Kshs.50,698,799 incurred on the project may not have been a proper charge to public funds and the University may not obtain value for money on funds spent.

#### **4. Water Bottling Plant**

As previously reported, the University spent a total of Kshs.15,334,599 on the proposed water bottling project. However, verification of the Project in December, 2020 revealed that the project is not in use and the plant had never been functional despite the fact that Kshs.15,334,599 had already been spent towards operationalizing the project. Management did not provide satisfactory explanation on the lack of operationalization of this project. Due to change in technology, the plant may be obsolete before operations starts since the bottling technology has changed to glass bottling which the installed plant might not handle.

Under the circumstances, the propriety of the expenditure totalling of Kshs.15,334,599 incurred on the water bottling plant could not be confirmed.

#### **5. Construction of the New Administration Block**

As reported previously, the University entered into a contract for the construction of the new administration block for a contract period of seventy-two (72) weeks commencing on 21 January, 2013 at a contract sum of Kshs.285,919,713. A review of the project documents reveals that the contract was extended to 6 December, 2014 and the contract sum was varied to Kshs.348,366,919 representing an increase of 22% of the original contract sum.

As at 30 June, 2020, the works had not been completed and the gross valued works stood at Kshs.278,328,146. However, Management did not provide, for audit review, the extension of contract period and approval of the variations that exceeded the 15% allowable level of the then applicable Public Procurement and Disposal Act, 2005. Further, no explanation was provided by Management on how and when it intends to complete the building and put it into the intended use.

The audit was conducted in accordance with ISSAI 4000. The standard requires that I comply with ethical requirements and plan and perform the audit to obtain assurance about whether the activities, financial transactions and information reflected in the financial statements are in compliance, in all material respects, with the authorities that govern them. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my conclusion.

#### **REPORT ON EFFECTIVENESS OF INTERNAL CONTROLS, RISK MANAGEMENT AND GOVERNANCE**

##### **Conclusion**

As required by Section 7(1)(a) of the Public Audit Act, 2015, based on audit procedures performed, I confirm that, nothing has come to my attention to cause me to believe that internal controls, risk management and overall governance were not effective.

## **Basis for Conclusion**

The audit was conducted in accordance with ISSAI 2315 and ISSAI 2330. The standards require that I plan and perform the audit to obtain assurance about whether effective processes and systems of internal control, risk management and overall governance were operating effectively, in all material respects. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my conclusion.

## **Responsibilities of Management and those Charged with Governance**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with International Public Sector Accounting Standards (Accrual Basis) and for maintaining effective internal control as Management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error and for its assessment of the effectiveness of internal control, risk management and overall governance.

In preparing the financial statements, Management is responsible for assessing the University's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless Management is aware of the intention to terminate the University or to cease operations.

Management is also responsible for the submission of the financial statements to the Auditor-General in accordance with the provisions of Section 47 of the Public Audit Act, 2015.

In addition to the responsibility for the preparation and presentation of the financial statements described above, Management is also responsible for ensuring that the activities, financial transactions and information reflected in the financial statements are in compliance with the authorities which govern them, and that public resources are applied in an effective way.

Those charged with governance are responsible for overseeing the University's financial reporting process, reviewing the effectiveness of how the entity monitors compliance with relevant legislative and regulatory requirements, ensuring that effective processes and systems are in place to address key roles and responsibilities in relation to governance and risk management, and ensuring the adequacy and effectiveness of the control environment.

## **Auditor-General's Responsibilities for the Audit**

The audit objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion in accordance with the provisions of Section 48 of the Public Audit Act, 2015 and submit the audit report in compliance with Article 229(7) of the Constitution. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISSAIs will always detect

a material misstatement and weakness when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

In addition to the audit of the financial statements, a compliance audit is planned and performed to express a conclusion about whether, in all material respects, the activities, financial transactions and information reflected in the financial statements are in compliance with the authorities that govern them and that public resources are applied in an effective way, in accordance with the provisions of Article 229(6) of the Constitution and submit the audit report in compliance with Article 229(7) of the Constitution.

Further, in planning and performing the audit of the financial statements and audit of compliance, I consider internal control in order to give an assurance on the effectiveness of internal controls, risk management and governance processes and systems in accordance with the provisions of Section 7(1)(a) of the Public Audit Act, 2015 and submit the audit report in compliance with Article 229(7) of the Constitution. My consideration of the internal control would not necessarily disclose all matters in the internal control that might be material weaknesses under the ISSAIs. A material weakness is a condition in which the design or operation of one or more of the internal control components does not reduce to a relatively low level the risk that misstatements caused by error or fraud in amounts that would be material in relation to the financial statements being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions.

Because of its inherent limitations, internal control may not prevent or detect misstatements and instances of non-compliance. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

As part of an audit conducted in accordance with ISSAIs, I exercise professional judgement and maintain professional skepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the Management.
- Conclude on the appropriateness of the Management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on

the University's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in the auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my audit report. However, future events or conditions may cause the University to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information and business activities of the University to express an opinion on the financial statements.
- Perform such other procedures as I consider necessary in the circumstances.

I communicate with the Management regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that are identified during the audit.

I also provide Management with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.



**Nancy Gathungu**  
**AUDITOR-GENERAL**

**Nairobi**

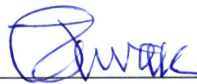
**16 November, 2021**

**X STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2020**

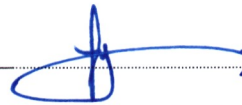
	<u>NOTE</u>	<u>2019/ 2020</u> KSHS	<u>2018/ 2019</u> KSHS
<b>ASSETS</b>			
<b>CURRENT ASSETS</b>			
Inventories	9	27,116,750	34,045,182
Trade and Other Receivables	10	3,820,604,198	3,847,208,334
Cash and bank balances	11a	600,289,900	382,414,661
		<b><u>4,448,010,848</u></b>	<b><u>4,263,668,177</u></b>
<b>NON CURRENT ASSETS</b>			
Property, Plant and Equipment	8	9,482,426,374	9,451,295,072
Investments	13	444,625,004	444,525,004
Biological Assets-Livestock	15	5,830,000	7,090,000
Intangible Asset - ERP Software	16	17,428,999	17,428,999
		<b><u>9,950,310,377</u></b>	<b><u>9,920,339,075</u></b>
<b>TOTAL ASSETS</b>		<b><u>14,398,321,225</u></b>	<b><u>14,184,007,252</u></b>
<b>LIABILITIES</b>			
<b>CURRENT LIABILITIES</b>			
Trade and Other Payables	12	6,161,800,368	5,408,307,975
Deferred Income: Special Accounts & Grants - Unexpended Amount	7a	640,268,872	550,663,189
Bank Loan	14a	436,895,462	314,845,882
Bank Overdraft	11b	65,329,166	132,308,002
		<b><u>7,304,293,868</u></b>	<b><u>6,406,125,048</u></b>
<b>NON-CURRENT LIABILITIES</b>			
Bank Loan	14b	2,302,145,279	2,861,090,321
<b>TOTAL LIABILITIES</b>		<b><u>9,606,439,147</u></b>	<b><u>9,267,215,369</u></b>
<b>NET ASSETS</b>			
Capital Fund	6	2,979,653,469	2,898,069,023
Revaluation Reserve	6	1,351,892,790	1,350,892,790
Accumulated Surplus	6	460,335,819	667,830,070
		<b><u>4,791,882,078</u></b>	<b><u>4,916,791,883</u></b>
<b>TOTAL NET ASSETS AND LIABILITIES</b>		<b><u>14,398,321,225</u></b>	<b><u>14,184,007,252</u></b>
<b>TOTAL FUNDS, GRANTS AND LIABILITIES</b>		<b><u>14,398,321,225</u></b>	<b><u>14,184,007,252</u></b>



CPA Mary Ngugi, ICPAK  
No. 6733  
Ag. Finance Officer



Prof. Jackson Kwanza PhD.  
Ag. Deputy Vice-Chancellor (Finance)



Prof. Victoria Wambui Ngumi, PhD.  
Vice-Chancellor

**XI STATEMENT OF CHANGES IN NET ASSETS  
FOR THE YEAR ENDED 30 JUNE 2020**

	<b>Capital Fund</b>	<b>Revaluation Reserve</b>	<b>Accumulated Surplus</b>	<b>TOTAL</b>
<b>Additions in the Year</b>	187,441,364			<b>187,441,364</b>
Donations – SAJOREC	221,448,962			<b>221,448,962</b>
Additions from JKUAT Nissin	268,881,000			<b>268,881,000</b>
Surplus for the Year			(57,728,576)	<b>(57,728,576)</b>
<b>As at 30 June 2019</b>	<b>2,898,069,023</b>	<b>1,350,892,790</b>	<b>667,830,070</b>	<b>4,916,791,883</b>
<b>Additions in the Year</b>	81,484,446			<b>81,484,446</b>
Donations – Motor Vehicle		1,000,000		<b>1,000,000</b>
Investment in NITP	100,000			<b>100,000</b>
<b>Surplus for the Year</b>			(207,494,250)	<b>(207,494,250)</b>
<b>As at 30 June 2020</b>	<b>2,979,653,469</b>	<b>1,351,892,790</b>	<b>460,335,819</b>	<b>4,791,882,078</b>

**XII STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 JUNE 2020**

	NOTE	<u>2019/ 2020</u> <u>KSHS</u>	<u>2018/ 2019</u> <u>KSHS</u>
<b><u>CASHFLOWS FROM OPERATING ACTIVITIES</u></b>			
Surplus/(Deficit) for the year		(207,494,250)	(57,728,576)
Adjustment for :			
Depreciation Charge	8	165,901,597	167,068,855
<b>Operating Profit before working capital changes</b>		<b>(41,592,653)</b>	<b>109,340,279</b>
Decrease (Increase) in Debtors	10	26,604,136	(1,325,774,787)
Decrease (increase) in Inventories	9	6,928,432	38,061,739
Increase (Decrease) in Other Payables-Special Accounts	7a	89,605,683	120,757,567
Increase (Decrease) in Creditors	12	<u>753,492,393</u>	<u>1,944,796,799</u>
		<b>876,630,644</b>	<b>777,841,318</b>
<b>Net Cash Generated from Operating Activities</b>		<b>835,037,991</b>	<b>887,181,597</b>
<b><u>CASH FLOWS FROM INVESTING ACTIVITIES</u></b>			
Purchase of Furniture	8	(2,209,380)	(12,417,900)
Additions to Work In Progress	8	(164,616,444)	(294,799,303)
Purchase of Computers and Equipment	8	(29,207,075)	(19,685,861)
Purchase of ERP Sage Accpac	16	-	(17,428,999)
Decrease in Biological assets	15	<u>1,260,000</u>	<u>(1,470,000)</u>
<b>Net cash used in Investing Activities</b>		<b>(194,772,899)</b>	<b>(345,802,063)</b>
<b><u>CASH FLOWS FROM FINANCING ACTIVITIES</u></b>			
Grants allocated to Finance Capital Fund	6	81,484,446	187,441,364
Asset Based Financing Repayment - Motor Vehicles	14		(18,738,544)
Bank Loan - JKUAT Towers	14	(133,653,404)	(163,486,087)
Bank Loan - Kenyatta Road	14	(303,242,059)	(6,789,212)
<b>Net cash used in Financing Activities</b>		<b>(355,411,017)</b>	<b>(1,572,479)</b>
<b>Net Increase (Decrease) in cash and cash equivalents</b>		<b>284,854,075</b>	<b>539,807,055</b>
Cash and cash equivalents at beginning of year	11	250,106,659	(289,700,396)
Cash and cash equivalents at end of year	11	<b>534,960,734</b>	<b>250,106,659</b>
<b><u>SUMMARY OF CASH AND BANK BALANCES</u></b>			
Cash on hand and balance with banks	11a	600,289,900	382,414,661
Bank overdraft	11b	(65,329,166)	(132,308,002)
<b>TOTAL</b>		<b>534,960,734</b>	<b>250,106,659</b>

XIII

STATEMENT OF COMPARISON OF BUDGET AND ACTUAL AMOUNTS  
FOR THE YEAR ENDED 30 JUNE 2020

	ORIGINAL BUDGET		ADJUSTMENTS		FINAL BUDGET		ACTUAL ON COMPARABLE BASIS		PERFORMANCE DIFFERENCE		Note
	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	2019/2020 KSHS	%age		
<b>INCOME</b>											
Government Grant – Recurrent	2,814,542,455	-	-	2,814,542,455	2,814,542,455	-	2,814,542,455	-	0%		
Recurrent Grant- CBA Arrears	679,441,661	-	-	679,441,661	679,441,661	-	679,441,661	-	0%		
<b>Government Grant Income</b>	<b>3,493,984,116</b>			<b>3,493,984,116</b>	<b>3,493,984,116</b>		<b>3,493,984,116</b>		<b>0%</b>		
<b>Total Government Recurrent Grant</b>	<b>3,493,984,116</b>			<b>3,493,984,116</b>	<b>3,493,984,116</b>		<b>3,493,984,116</b>		<b>0%</b>		
Tuition and other Fees Income	4,369,148,524	-	-	4,369,148,524	4,369,148,524	-	2,447,648,082	(1,921,500,443)	-44%	(a)	
Other income	440,957,356	-	-	440,957,356	440,957,356	-	564,382,498	123,425,142	28%	(b)	
Special Accounts & Grants	150,156,388	-	-	150,156,388	150,156,388	-	296,518,952	146,362,564	97%	(c)	
<b>Sub Total</b>	<b>4,960,262,268</b>			<b>4,960,262,268</b>	<b>4,960,262,268</b>		<b>3,308,549,532</b>	<b>(1,651,712,738)</b>	<b>-33%</b>		
<b>Total Income</b>	<b>8,454,246,384</b>			<b>8,454,246,384</b>	<b>8,454,246,384</b>		<b>6,802,533,648</b>	<b>(1,651,712,738)</b>	<b>-20%</b>		
<b>EXPENDITURE</b>											
Personal Emoluments	5,701,512,530	-	-	5,701,512,530	5,701,512,530	-	4,634,609,293	1,066,903,237	19%	(d)	
Academic Departments Costs	276,899,997	-	-	276,899,997	276,899,997	-	266,506,730	10,393,267	4%		
Administrative Departments Costs	113,211,978	-	-	113,211,978	113,211,978	-	50,862,680	62,349,298	55%	(e)	
JKUAT Campus Costs	761,756,751	-	-	761,756,751	761,756,751	-	683,371,564	76,385,187	10%	(f)	
Students Welfare Costs	51,212,500	-	-	51,212,500	51,212,500	-	46,085,705	5,126,795	10%		
Maintenance Work Costs	18,489,061	-	-	18,489,061	18,489,061	-	17,804,240	684,821	4%		
Miscellaneous Expenditure	37,131,620	-	-	37,131,620	37,131,620	-	34,565,293	2,566,327	7%		
Central Services Costs	1,321,455,563	-	-	1,321,455,563	1,321,455,563	-	969,899,551	351,556,012	27%	(f)	
Council, Committees expenses	15,733,539	-	-	15,733,539	15,733,539	-	7,803,890	7,929,649	50%	(g)	
Special Accounts & Grants	150,156,388	-	-	150,156,388	150,156,388	-	296,518,952	(146,362,564)	-97%		
<b>Total Expenditure</b>	<b>8,447,559,928</b>			<b>8,447,559,928</b>	<b>8,447,559,928</b>		<b>7,010,027,898</b>	<b>1,437,532,030</b>	<b>21%</b>		
<b>Surplus/(Deficit) For The Year</b>	<b>6,686,456</b>			<b>6,686,456</b>	<b>6,686,456</b>		<b>(207,494,250)</b>	<b>(214,180,707)</b>		(h)	

**Budget Notes**

- Decline in Tuition and other Fees Income was due to reduced number of students qualified and admitted to the self sponsored programmes following the recent restructuring in the education sector, disruption of academic calendar due to Covid-19
- Improvement due to enhanced performance from various income generating units in the year
- Variance resulted from increased research activities in the year
- Positive Variance resulted from strict austerity measures implemented due to cash constraints
- Variance resulted from implementation of cost cutting measures across all departments in the year
- Variance resulted from implementation of cost cutting measures across all campuses in the year.
- Positive Variance resulted from reduced activities due to Covid-19
- Negative variance occasioned by budget reductions in the year

## **II. NOTES TO THE FINANCIAL STATEMENTS**

### **1.1 GENERAL INFORMATION**

Jomo Kenyatta University of Agriculture and Technology is established by and derives its authority and accountability from Act of Parliament, CAP 210 (C) of the Laws of Kenya. JKUAT is wholly owned by the Government of Kenya and is domiciled in Kenya. The principal activities are

- a) to provide directly or indirectly or in collaboration with other institutions of higher learning, facilities for University education (including agriculture, scientific, cultural, technological and professional education), and integration of teaching, research and effective application of knowledge and skills to the life, work and welfare of the citizens of Kenya;
- b) to participate in the discovery, transmission and preservation and enhancement of knowledge and to stimulate the intellectual participation of students in the economic, technological, agricultural, professional and cultural development of Kenya;
- c) to play an effective role in the development of agriculture and technology in conjunction with the industry and to provide extension services so as to contribute to the social and economic development of Kenya;
- d) subject to the Universities Act (Cap. 210B), to co-operate with the Government in the planned development of University education and, in particular, to examine and approve proposals for new faculties, new departments, new degree courses or new subjects of study proposed to it by any constituent college or other post-secondary institution; to determine who may teach, what may be taught, how it may be taught and when it may be taught at the University.

### **1.1 STATEMENT OF COMPLIANCE AND BASIS OF PREPARATION**

Jomo Kenyatta University of Agriculture and Technology financial statements have been prepared in accordance with and comply with International Public Sector Accounting Standards (IPSAS) accrual basis. The financial statements are presented in Kenya shillings, which is the functional and reporting currency of JKUAT. The accounting policies have been applied as per IPSAS in the year under review.

The financial statements have been prepared on the basis of historical cost, unless stated otherwise. The

cash flow statement is prepared using the indirect method. The financial statements are prepared on accrual basis.

## 1.2 ADOPTION OF NEW AND REVISED STANDARDS

### i. Relevant new standards and amendments to published standards effective for the year ended 30 June 2020

Standard	Impact
IPSAS 40: Public Sector Combinations	<p>Applicable: 1st January 2019</p> <p>The objective to issue IPSAS 40 was to establish requirements for classifying, recognizing and measuring public sector combinations. The standard covers public sector combinations arising from exchange transactions in which case they are treated similarly with IFRS 3 (applicable to acquisitions only) Business combinations and combinations arising from non exchange transactions which are covered purely under Public Sector combinations as amalgamations.</p>

### ii. New and amended standards and interpretations in issue but not yet effective in the year ended 30 June 2020

Standard	Effective date and impact:
IPSAS 41: Financial Instruments	<p><b>Applicable: 1<sup>st</sup> January 2022:</b></p> <p><i>Financial Instruments</i>, establishes new requirements for classifying, recognizing and measuring financial instruments to replace those in IPSAS 29, <i>Financial Instruments: Recognition and Measurement</i>.</p> <p>The University has not adopted it yet.</p>
IPSAS 42: Social Benefits	<p><b>Applicable: 1<sup>st</sup> January 2022:</b></p> <p>Social Benefits provides guidance on accounting for social benefits expenditure. It defines social benefits as cash transfers paid to specific individuals and/or households to mitigate the effect of social risk. Specific examples include state retirement benefits, disability benefits, income support and unemployment benefits. The new standard requires an entity to recognize an expense and a liability for the next social benefit payment.</p> <p>The University has not adopted it yet.</p>

**iii. Early adoption of standards**

Jomo Kenyatta University of Agriculture and Technology did not early-adopt any new or amended standards in year 2020.

**1.3 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**a) Revenue recognition**

**i) Revenue from non-exchange transactions – IPSAS 23**

**Transfers from other government entities**

Revenues from non-exchange transactions with other government entities are measured at fair value and recognized on obtaining control of the asset (cash, goods, services and property) if the transfer is free from conditions and it is probable that the economic benefits or service potential related to the asset will flow to JKUAT and can be measured reliably.

**ii) Revenue from exchange transactions – IPSAS 9**

**Rendering of services**

Jomo Kenyatta University of Agriculture & Technology recognizes revenue from rendering of services by reference to the stage of completion when the outcome of the transaction can be estimated reliably. The stage of completion is measured by reference to labour hours incurred to date as a percentage of total estimated labour hours.

Where the contract outcome cannot be measured reliably, revenue is recognized only to the extent that the expenses incurred are recoverable.

Tuition arrears as at 30 June 2020 was Kshs. 3,375,860,409. This income is accrued in the accounts in accordance with IPSAS 9

**Sale of goods**

Revenue from the sale of goods is recognized when the significant risks and rewards of ownership have been transferred to the buyer, usually on delivery of the goods and when the amount of revenue can be measured reliably and it is probable that the economic benefits or service potential associated with the transaction will flow to JKUAT.

**Rental income**

The University owns JKUAT Towers that has operating leases on part of it. The University occupies three floors and has leased out the remaining ones to private businesses. The leases are handled by a property management Company- Knight Frank. Rental income arising from these operating leases on investment property is accounted for on a straight-line basis over the lease terms and included in revenue.

**b) Budget information - IPSAS 24**

The annual budget is prepared on the accrual basis, that is, all planned costs and income are presented in a single statement to determine the needs of JKUAT. As a result of the adoption of the accrual basis for budgeting purposes, there is no basis, timing or organization's differences that would require reconciliation between the actual comparable amounts and the amounts presented as a separate additional financial statement in the statement of comparison of budget and actual amounts.

**c) Investment property – IPSAS 16**

Investment properties are measured initially at cost, including transaction costs. The carrying amount includes the replacement cost of components of an existing investment property at the time that cost is incurred if the recognition criteria are met and excludes the costs of day-to-day maintenance of an investment property.

Investment property acquired through a non-exchange transaction is measured at its fair value at the date of acquisition. Subsequent to initial recognition, investment properties are measured using the cost model and are depreciated over a 30-year period.

Investment properties are derecognized either when they have been disposed of or when the investment property is permanently withdrawn from use and no future economic benefit or service potential is expected from its disposal. The difference between the net disposal proceeds and the carrying amount of the asset is recognized in the surplus or deficit in the period of de-recognition.

Transfers are made to or from investment property only when there is a change in use.

**d) Property, plant and equipment – IPSAS 17**

All property, plant and equipment are stated at cost less accumulated depreciation and impairment losses. Cost includes expenditure that is directly attributable to the acquisition of the items. When significant parts of property, plant and equipment are required to be replaced at intervals, JKUAT recognizes such parts as individual assets with specific useful lives and depreciates them accordingly. Likewise, when a major inspection is performed, its cost is recognized in the carrying amount of the plant and equipment as a replacement if the recognition criteria are satisfied. All other repair and maintenance costs are recognized in surplus or deficit as incurred. Where an asset is acquired in a non-exchange transaction for nil or nominal consideration the asset is initially measured at its fair value. Depreciation is calculated on a straight line basis at the following rates:

<b>Description</b>	<b>Annual Rate</b>
- Freehold land	Nil
- Buildings	2%
- Motor vehicles	20%
- Fixtures, furniture & fittings	10%
- Computers and Equipment	30%

Capital work in progress is not depreciated until such a time as the asset is brought into use.

#### **e) Research and development costs**

All research costs are expensed as incurred.

Development costs are capitalized only after technical and commercial feasibility of the resulting product or service have been established.

#### **f) Financial instruments – IPSAS 29**

##### **Financial assets**

##### **Initial recognition and measurement**

Financial assets within the scope of IPSAS 29 Financial Instruments: Recognition and Measurement are classified as financial assets at fair value through surplus or deficit, loans and receivables, held-to-maturity investments or available-for-sale financial assets, as appropriate. JKUAT determines the classification of its financial assets at initial recognition.

##### **g) Impairment of financial assets**

JKUAT assesses at each reporting date whether there is objective evidence that a financial asset or an entity of financial assets is impaired. A financial asset or an entity of financial assets is deemed to be impaired if, and only if, there is objective evidence of impairment as a result of one or more events that has occurred after the initial recognition of the asset (an incurred 'loss event') and that loss event has an impact on the estimated future cash flows of the financial asset or the entity of financial assets that can be reliably estimated.

Evidence of impairment may include the following indicators:

- i. The debtors or an entity of debtors are experiencing significant financial difficulty
- ii. Default or delinquency in interest or principal payments
- iii. The probability that debtors will enter bankruptcy or other financial reorganization
- iv. Observable data indicates a measurable decrease in estimated future cash flows (e.g. changes in arrears or economic conditions that correlate with defaults)

## **h) Financial instruments**

### **Financial liabilities**

#### **Initial recognition and measurement**

Financial liabilities within the scope of IPSAS 29 are classified as financial liabilities at fair value through surplus or deficit or loans and borrowings, as appropriate. JKUAT determines the classification of its financial liabilities at initial recognition.

All financial liabilities are recognized initially at fair value and, in the case of loans and borrowings, plus directly attributable transaction costs.

#### **i) Inventories – IPSAS 12**

Inventory is measured at cost upon initial recognition. After initial recognition, inventory is measured at the lower of cost and net realizable value. However, to the extent that a class of inventory is distributed or deployed at no charge or for a nominal charge, that class of inventory is measured at the lower of cost and current replacement cost.

Net realizable value is the estimated selling price in the ordinary course of operations, less the estimated costs of completion and the estimated costs necessary to make the sale, exchange, or distribution.

Inventories are recognized as an expense when deployed for utilization or consumption in the ordinary course of operations of JKUAT.

#### **j) Provisions – IPSAS 19**

Provisions are recognized when JKUAT has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits or service potential will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

Where JKUAT expects some or all of a provision to be reimbursed, for example, under an insurance contract, the reimbursement is recognized as a separate asset only when the reimbursement is virtually certain.

The expense relating to any provision is presented in the statement of financial performance net of any reimbursement.

### **Contingent liabilities**

JKUAT does not recognize a contingent liability, but discloses details of any contingencies in the notes to the financial statements, unless the possibility of an outflow of resources embodying economic benefits or service potential is remote.

### **Contingent assets**

JKUAT does not recognize a contingent asset, but discloses details of a possible asset whose existence is contingent on the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of JKUAT in the notes to the financial statements. Contingent assets are assessed continually to ensure that developments are appropriately reflected in the financial statements. If it has become virtually certain that an inflow of economic benefits or service potential will arise and the asset's value can be measured reliably, the asset and the related revenue are recognized in the financial statements of the period in which the change occurs.

### **k) Nature and purpose of reserves**

JKUAT creates and maintains reserves in terms of specific requirements as follows

- i) Capital Reserve – this is used to record contribution made by government in form of development grants transfers
- ii) Revaluation Reserve – this is used to indicate the re-valued amounts on the plant property and equipment, and any other adjustments on the same.

### **l) Changes in accounting policies and estimates – IPSAS 3**

JKUAT recognizes the effects of changes in accounting policy retrospectively. The effects of changes in accounting policy are applied prospectively if retrospective application is impractical.

### **m) Employee benefits – IPSAS 25**

#### **Retirement benefit plans**

JKUAT provides retirement benefits for its employees and directors. Defined contribution plans are post-employment benefit plans under which an entity pays fixed contributions into a separate entity (a fund), and will have no legal or constructive obligation to pay further contributions if the fund does not hold sufficient assets to pay all employee benefits relating to employee service in the current and prior periods. The contributions to fund obligations for the payment of retirement benefits are charged against income in the year in which they become payable.

Defined benefit plans are post-employment benefit plans other than defined-contribution plans. The defined benefit funds are actuarially valued tri-annually on the projected unit credit method basis. Deficits identified are recovered through lump sum payments or increased future contributions on proportional basis to all

participating employers. The contributions and lump sum payments reduce the post-employment benefit obligation.

**n) Foreign currency transactions – IPSAS 4**

Transactions in foreign currencies are initially accounted for at the ruling rate of exchange on the date of the transaction. Trade creditors or debtors denominated in foreign currency are reported at the statement of financial position reporting date by applying the exchange rate on that date. Exchange differences arising from the settlement of creditors, or from the reporting of creditors at rates different from those at which they were initially recorded during the period, are recognized as income or expenses in the period in which they arise.

**o) Borrowing costs – IPSAS 5**

Borrowing costs are capitalized against qualifying assets as part of property, plant and equipment. Such borrowing costs are capitalized over the period during which the asset is being acquired or constructed and borrowings have been incurred. Capitalization ceases when construction of the asset is complete. Further borrowing costs are charged to the statement of financial performance.

**p) Related Party Disclosures – IPSAS 20**

The University regards a related party as a person or an entity with the ability to exert control individually or jointly, or to exercise significant influence over the University, or vice versa. The National Government and Members of Council are regarded as related parties in preparation of these financial statements. National Government transactions have been disclosed under revenue from non- exchange transactions - government grants (note 2) while Members of Council have been disclosed under board expenses in the statement of financial performance (note 5(ix)).

**q) Cash and cash equivalents**

Cash and cash equivalents comprise cash at hand and cash at bank, short-term deposits on call and highly liquid investments with an original maturity of three months or less, which are readily convertible to known amounts of cash and are subject to insignificant risk of changes in value. Bank account balances include amounts held at the Commercial Banks and Mpesa holding account at the end of the financial year.

**r) Comparative figures**

Where necessary comparative figures for the previous financial year have been amended or reconfigured to conform to the required changes in presentation.

## **1.4 SIGNIFICANT JUDGMENTS AND SOURCES OF ESTIMATION UNCERTAINTY – IPSAS 1**

The preparation of the JKUAT financial statements in conformity with IPSAS requires management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent liabilities, at the end of the reporting period. However, uncertainty about these assumptions and estimates could result in outcomes that require a material adjustment to the carrying amount of the asset or liability affected in future periods

### **Critical accounting judgments in applying the organization's accounting policies**

#### **Impairment losses on trade and other receivables**

The organization reviews its trade and other receivables to assess impairment regularly. In determining whether an impairment loss should be recognized through profit or loss, the company makes judgements as to whether there is any observable data indicating that there is a measurable decrease in the estimated future cash flows from the receivables, before a decrease can be identified. This evidence may include observable data indicating that there has been an adverse change in the payment status of customers or local economic conditions that correlate with defaults on assets in the company. Management uses estimates based on historical loss experience for assets with credit risk characteristics and objective evidence of impairment when scheduling its future cash flows. The methodology and assumptions used for estimating both the amount and timing of future cash flows are reviewed regularly to reduce any differences between loss estimates and actual loss experience.

#### **Estimates and assumptions**

The key assumptions concerning the future and other key sources of estimation uncertainty at the reporting date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year, are described below. JKUAT based its assumptions and estimates on parameters available when the financial statements were prepared. However, existing circumstances and assumptions about future developments may change due to market changes or circumstances arising beyond the control of JKUAT. Such changes are reflected in the assumptions when they occur. IPSAS 1.140

#### **Key sources of estimation uncertainty**

##### **Impairment of assets**

At the end of each reporting period, the authority reviews the carrying amount of its assets to determine whether there is any indication that these assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of impairment (if any).

### **Useful lives and residual values**

The useful lives and residual values of assets are assessed using the following indicators to inform potential future use and value from disposal:

- The condition of the asset based on the assessment of experts employed by JKUAT
- The nature of the asset, its susceptibility and adaptability to changes in technology and processes
- The nature of the processes in which the asset is deployed
- Availability of funding to replace the asset
- Changes in the market in relation to the asset

### **Fair value estimation – financial instruments**

Where the fair value of financial assets and financial liabilities recorded in the statement of financial position cannot be derived from active markets, their fair value is determined using valuation techniques including the discounted cash flow model. The inputs to these models are taken from observable markets where possible, but where this is not feasible, judgment is required in establishing fair values. Judgment includes the consideration of inputs such as liquidity risk, credit risk and volatility. Changes in assumptions about these factors could affect the reported fair value of financial instruments.

### **Provisions – IPSAS 19**

Provisions are recognized when JKUAT has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits or service potential will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation

Provisions are measured at the management's best estimate of the expenditure required to settle the obligation at the reporting date, and are discounted to present value where the effect is material.

Where JKUAT expects some or all of a provision to be reimbursed, for example, under an insurance contract, the reimbursement is recognized as a separate asset only when the reimbursement is virtually certain.

The expense relating to any provision is presented in the statement of financial performance net of any reimbursement.

### **Taxation**

JKUAT is exempted from taxation and therefore no provision for tax liability has been made in financial statements.

### Subsequent events – IPSAS 14

There have been no events subsequent to the financial year end with a significant impact on the financial statements for the year ended June 30, 2019.

### Financial Risk Management

The University's activities expose it to a variety of financial risks including credit and liquidity risks and effects of changes in foreign currency. The University's overall risk management focuses on unpredictability of changes in the business environment and seeks to minimize the potential adverse effect of such risks on its performance by setting acceptable levels of risk.

The University's financial risk management objectives and policies are detailed below:

#### *a) Credit risk*

The University has exposure to credit risk which is the risk that counterparty to a financial instrument will be unable to pay amounts in full when due thus causing a financial loss. Credit risk arises from cash and cash equivalents and trade receivables.

Credit risk on trade receivables is managed by ensuring that credit is extended to students with established credit history. Credit is managed by setting the credit limit and the credit period for each category of customer. These parameters are monitored by the University Management Board on a semester basis.

#### *b) Market risk*

The University has put in place an internal audit function to assist it in assessing the risk faced by the University on an on-going basis, evaluate and test the design and effectiveness of its internal accounting and operational controls.

Market risk is the risk that the fair value or future cash flows of financial instruments will fluctuate because of changes in market price and comprises three types of risks: currency risk, interest rate risk and other price risk.

#### *c) Foreign currency risk*

Foreign currency exchange risk arises when future commercial transactions or recognized assets and liabilities are denominated in a currency that is not the university's functional currency. The university primarily transacts in the Kenya shilling and its assets and liabilities are denominated in the same currency. The university's exposure to foreign currency risk is minimal.

#### *d) Interest rate risk*

Interest rate risk is the risk that the University's financial condition may be adversely affected as a result of changes in interest rate levels. The University's interest rate risk arises from loans advanced to the University at interest rates that are subject to fluctuation. If the rates go up, the university suffers a loss.

Another risk arises from deposits held with financial institutions. This exposes the University to cash flow interest rate risk.

*e) Management of interest rate risk*

To manage the interest rate risk, management has endeavored to bank with institutions that offer favourable interest rates.

*f) Sensitivity analysis*

The University analyses its interest rate exposure on a dynamic basis by conducting a sensitivity analysis. The sensitivity analysis for interest rate risk assumes that all other variables, in particular foreign exchange rates, remain constant. The analysis has been performed on the same basis as the prior year.

Using the end of the year figures, the sensitivity analysis indicates no impact on the statement of financial performance. This is due to the fact that at the end of the financial year there was no investment that would be affected by fluctuations in the interest rates.

*g) Price risk*

The University does not hold investments that would be subject to price risk; hence this risk not applicable.

### **1.7 Reserves**

*a) Capital fund*

This reserve relates to items of property plant and equipment developed from capital grants received from national government, other development partners and transfers from revenue reserve on purchase of additional assets.

*b) Accumulated reserve*

This relates to surplus / deficit accrued by the university over time.

*c) Revaluation reserve*

This reserve relates to items of property plant and equipment that have been revalued after acquisition.

### **1.8 Leases Arrangements**

The University continues to lease properties in various towns where the JKUAT campuses are located but it does not own the property. These include; Mombasa, Nakuru, Eldoret, Kakamega, Kisumu, Kitale, Kigali and Arusha. The Council will continue to ensure that all requirements with respect to offering university education are met at all rented facilities.

### **1.9 Research Grants Reconciliation**

Research Grants are receivable from institutions both local and foreign that have entered into funding agreements for purposes of furtherance of areas of common interest in training, research and community outreach activities. The terms of these grants are as specified in the agreements. Research grants expended in the year are amortized and the total amount outstanding on the research projects has been included in the Current Liabilities. An itemized summary is available under (Note 7a).

### **1.10 Biological Assets – IPSAS 27**

Biological Assets are made up of farm animals. The initial recognition is at cost, while subsequent recognition is at fair market value less costs to sell.

	2019/ 2020	2018/ 2019
	KSHS	KSHS
<b>2 GOVERNMENT GRANT</b>		
Recurrent Grant	2,946,175,255	2,503,892,160
Recurrent Grant Receivable	547,808,861	428,898,030
	<b>3,493,984,116</b>	<b>2,932,790,190</b>
<b>3 TUITION AND OTHER FEES</b>		
ID/Registration Fees	30,280,813	42,075,646
Residential Fees	-	16,257,800
Tuition Fees	1,867,950,475	3,283,183,997
Examination Fees	192,754,124	250,138,541
Medical Fees	89,982,591	119,149,027
Supplementary fees	4,016,762	1,204,222
Project Examination	5,762,121	7,348,367
Clinical Placement	939,800	610,000
Practical Examination	408,282	82,285
Post Graduate Fees	1,156,450	3,015,700
Bsc. Application fees	4,387,000	5,969,897
Internet	38,719,537	63,931,637
Computer fees	45,057,957	73,367,130
Library Fees	44,968,019	57,377,026
Field Trips/Attachment	65,113,960	108,612,116
Students Laptop Fees	18,990,969	22,854,900
Laboratory Fees	2,034,800	-
Thesis/Project Portfolio	35,124,422	-
	<b>2,447,648,082</b>	<b>4,055,178,290</b>
<b>4 (i) OTHER SERVICES RENDERED</b>		
Accounting Professional Courses	234,675	-
Rechargeable transport	26,744,906	36,833,809
Nursery School	2,394,101	2,500,956
Likuyani Farm	890,936	727,537
Farm crops	12,117	-
Horticulture Production	338,600	-
Staff Cafeteria	11,880,118	12,183,383
Cafeteria (meals)- SAJOREC	104,784	1,225,801
Xeroxing and printing	8,470,099	6,080,099
Workshop Production	714,723	3,030,698
Food Processing	555,203	213,327
Mechanical eng production fund	-	360,000
Hospital fund	5,357,357	9,247,787
Library Production	626,733	702,280
IBR production	-	11,158
VIZAFRICA 2018 Conference	897	353,767
Bookshop Income	51,642	65,264
Chemistry	-	601,437

Kenyatta Road -Beef project	-	542,429
Livestock production	-	685,505
Serena /Candle IGU A/C	2,451,845	3,975,573
Outside Catering unit	-	395,045
Farm machinery	26,400	742,151
Health centre dental	143,508	142,260
JKUAT Computer Assembling Unit-Taifa Laptop	312,500	6,732,000
Botany IGU	49,250	128,690
Short Courses and Trainings	716,375	9,313,850
ICT Research, Consultancy& Training – Main Campus	1,000,000	2,311,264
Medical lab science IGU	204,000	-
	<b>63,280,769</b>	<b>99,106,070</b>

**NOTES TO THE FINANCIAL STATEMENTS (Continued)**

	<b>2019/ 2020</b>	<b>2018/2019</b>
	<b>KSHS</b>	<b>KSHS</b>
<b>4 (ii) OTHER INCOME:</b>		
Accommodation Charges	43,014,801	21,245,479
JKUAT Towers Rental Income	234,177,231	225,448,060
MSC Application Fees	2,004,450	-
CISCO Application	141,500	-
Conference & Training Income SAJOREC	1,031,383	-
House Rent	14,224,194	9,062,300
Water Charges	1,839,600	1,563,053
Shop Rent	985,494	737,514
Interest Earned on Fixed Deposit	337,262	736,979
Miscellaneous income	7,997,202	10,568,776
Asset Disposal Account	-	370,712
Disposal of Fixed Assets	924,508	-
Library Fines	6,843	-
Laundry Charges	5,524,725	8,195,115
Hire of Graduation Gowns	23,142,185	35,082,927
Bridging Maths	1,500	-
Students P.A.Y.E	9,968,759	18,191,343
Project fees	4,077,266	3,391,851
KUCCPS - Main Campus	-	1,486,000
Research/Attachment Fees	-	25,000
Journal of Agric	4,000	20,000
Project Admin Costs	4,131,313	1,875,857
JKUAT Hospital Cost Sharing	1,742,695	1,673,341
<u>Surcharge &amp; Penalties</u>	666,106	192,300
Sale of tenders	-	103,920
Swimming Pool Charges	206,804	-
Training Income	9,583,364	5,967,832
Ethic Review fees - Research Dept	152,000	-
Guest Houses Rental Income	-	30,000
CUE Inspection Fees	-	33,028,000
Car Pass	-	300
Certificate - Application Fees	341,000	-
Diploma - Application Fees	715,000	-
Alumni Fees	2,541,550	6,136,250
Seminar Charges	3,000	-
Storage Charges	20,800	-
Photo Session/Video Shooting - SAJOREC	-	15,000
Botanical Garden Entry Fees - SAJOREC	631,123	655,785
Rebates received/ NITP/DLP	100,000,000	87,082,214
Laboratory Bench Fees - SAJOREC	335,744	535,000
ICEOD Short Courses	9,800	378,000
Foreign Exchange Income	5,806,452	-
Decrease in Provision for Leave Pay	21,856,060	-
Decrease in Provision for Doubtful debts	2,956,015	-

	<b>501,101,729</b>	<b>473,798,908</b>
<b>5(i) PERSONAL EMOLUMENTS</b>		
Staff Salary	2,291,966,695	2,288,548,414
Casual Workers	15,340,947	42,231,087
Part-time Teaching	2,029,500	2,347,482
Gratuity and Pension Contributions	451,903,432	480,416,939
Group Life Insurance	15,180,580	26,808,566
House Allowance	1,069,595,251	1,079,788,339
Other Personal Allowances	331,135,000	342,564,601
House to Office Allowance	437,824,962	430,871,985
Passage, Baggage/Leave Allowance	19,632,926	20,421,265
	<b>4,634,609,293</b>	<b>4,713,998,678</b>
<b>5(ii) ACADEMIC COSTS</b>		
Travelling and accommodation	18,658,966	34,652,304
Field courses	3,715,003	9,151,321
Telephone	1,300	-
Entertainment	3,908,376	11,568,360
Teaching materials	4,376,404	11,396,952
Library expenses	192,306	3,466,058
Stationery and stores	6,997,522	13,503,717
Short Courses	171,000	19,200
Computer	-	2,168,838
Cleaning materials	1,101,148	1,915,676
Attachment Expenses	7,744,838	13,465,401
Research	3,977,970	13,207,634
Research Programme	2,042,953	4,808,773
Examination expenses	21,728,495	46,499,907
Part time-departments	186,997,150	268,323,419
Casual workers -Department	4,553,444	2,055,160
Workstudy	334,975	105,600
Deans and Senate Committee Expenses	4,880	135,780
	<b>266,506,730</b>	<b>436,444,100</b>

5(iii) ADMINISTRATIVE COSTS	2019/ 2020 KSHS	2018/ 2019 KSHS
Travelling and Accommodation	17,230,414	24,597,608
Electricity	167,209	-
Entertainment	4,847,458	14,290,468
Crockery and utensils	1,793,701	605,242
Purchase of stationery and stores	12,434,509	26,468,996
Foodstuff for patients	455,537	673,000
Short Courses	316,721	279,765
Connectivity	-	78,852
Linens	-	1,040
Cleaning materials	1,948,805	2,004,272
Computer expenses	423,401	2,167,225
Casual Workers	10,792,639	457,992
Juja Community	69,310	104,697
UMB Expenses	382,976	674,436
	<b>50,862,680</b>	<b>72,403,593</b>
5(iv) CAMPUS COSTS		
Karen Campus	91,764,425	70,384,974
Westlands Campus	11,222,655	19,625,350
Nairobi CBD Campus	149,899,660	173,203,468
Mombasa CBD Campus	112,325,748	147,855,866
Kisii CBD Campus	67,663,420	56,219,703
Kitale CBD Campus	21,310,778	83,970,698
Nakuru CBD Campus	133,275,641	135,948,543
Arusha Campus	-	9,572,470
Kakamega Campus	43,303,309	76,578,291
Kisumu CBD	635,070	407,649
Kigali Campus	1,116,695	29,320,159
Keiyan Campus	863,589	975,843
KQ Pride Centre	365,322	538,015
Eldoret CBD Campus	51,625,252	56,645,831
	<b>685,371,564</b>	<b>861,246,860</b>

5(v) STUDENTS WELFARE	2019/ 2020 KSHS	2018/ 2019 KSHS
Travelling and Accomodation	458,674	868,023
Entertainment	1,016,450	1,447,151
Stationery	973,567	2,203,114
Cleaning materials	2,798,228	2,362,049
Gas and fuel	2,126,974	11,121,472
Food and rations	33,663,885	46,135,001
Crockery and Utensils	-	566,847
Casual Workers	3,448,823	-
Part Time	1,599,104	131450
Inter-University Games	-	1,127,120
	<b>46,085,705</b>	<b>65,962,227</b>
5 (vi) MAINTENANCE COSTS		
Maintenance of plant/mach/equip	5,049,633	2,270,462
Repair & Maintenance of Furniture	7,390,460	880,126
Maintenance of buildings	693,124	11,075,087
Maintenance of water/sewerage	3,747,123	4,375,972
Maintenance of roads/grounds	923,900	1,539,141
	<b>17,804,240</b>	<b>20,140,788</b>
5 (vii) MISCELLANEOUS EXPENDITURE		
Show expenses	9,141,202	8,974,645
Graduation expenses	25,014,890	37,575,886
Kabiru-ini Demonstration	409,201	871,605
	<b>34,565,293</b>	<b>47,422,136</b>

## 5(viii) CENTRAL SERVICES

	2019/ 2020	2018/ 2019
	KSHS	KSHS
Industrial Training Levy	1,573,150	1,575,400
Public celebrations/funerals	2,997,279	5,421,040
Foreign exchange difference	-	753,883
National Cohesion National Values	119,854	13,520
Audit fees	3,480,000	3,480,000
ISO expenses	142,860	1,461,310
Subscription to Professional bodies	10,588,705	11,331,547
Motor vehicle insurance	6,654,593	6,585,284
Fees commission & Honoraria Exp.	250,000	501,415
Insurance premiums	3,714,706	4,734,301
Staff Bonus Expense	-	13,438,500
Innovation & Technology	-	1,844,400
Depreciation charge	165,901,597	167,068,855
Hire of Equipment	6,000	30,000
Sale of Tenders	219,320	-
Swimming Pool Charges	-	1,555,600
University Bonus Share	-	95,488
IASTE Students Exchange	51,000	523,000
Farm crops	-	185,478
East Africa Games 2016	1,881,218	58,862
IBR Production	5,890	-
Donations Out (COVID-19)	108,000	-
Consultancy Services	-	11,176,425
Chemistry Production Fund	416,147	-
Piggery Unit	71,365	-
Provision for Bad Debts	-	147,308,309
Telephone expenses	1,375,825	1,486,694
Electricity expenses	62,818,228	76,722,682
Fuel for Generator	5,418,691	4,306,317
Crockery and Utensils	232,949	293,787
Advertising & Publicity	5,327,790	16,596,233
Internet Connectivity	26,736,238	30,844,985
Computer Charges	423,401	236,240
Misc other charges	100,185	129,484
Medical Expenses	167,274,993	168,998,556
Transport expenses	17,724,572	27,240,372
External travelling	1,605,607	5,954,168
Postal & telegrams expenses	71,572	2,749,422
Conference & seminars	2,561,950	8,087,420
Fungicides insecticides & Sprays	50,000	346,900
Publishing & printing	7,792,233	8,787,781

Purchase of Uniform & clothing	1,871,879	2,298,853
Rent and Rates	-	8,720
Contracted professional services	85,719,077	67,216,477
Mpesa Charges- Main Campus	10,284	6,199
Bank charges/interest	13,304,080	23,587,850
Staff Training expenses	20,108,242	26,022,798
Interest on Kenyatta Road 1 Loan	108,945,394	-
Interest on Kenyatta Road 2 Loan	46,520,610	-
Interest on KCB Loan	-	238,760,636
Fees, Penalties and Fines	34,403,175	-
Legal fees on loan - JKUAT Towers	6,381,042	-
Interest on loan - JKUAT Towers	154,809,850	289,302,986
Intellectual Property	130,000	-
Interest on loan - Motor Vehicles	-	287,026
Obsolete stocks written off	-	9,418,083
	<b>969,899,551</b>	<b>879,446,170</b>

**5(ix) COUNCIL, COMMITTEE EXPENSES**

	2019/ 2020	2018/ 2019
	KSHS	KSHS
Sitting Allowance	3,700,000	5,703,000
Chancellor's Honoraria	1,383,660	2,554,495
Council Chairman's Honoraria	1,046,900	1,044,000
Other Council Running Expenses	765,338	2,842,672
Chancellor's Other Expenses	907,992	-
	<b>7,803,890</b>	<b>12,144,167</b>

## 6. FUNDS AND GRANTS

	Capital Fund	Revaluation Reserve	Accumulated Surplus	TOTAL
	Kshs.	Kshs.	Kshs.	KSHS
<b>Balance as at 30 June 2018</b>	<b>2,220,297,697</b>	<b>1,350,892,790</b>	<b>725,558,646</b>	<b>4,296,749,133</b>
GoK Grant - Development	187,441,364			187,441,364
Donation – SAJOREC	221,448,962			221,448,962
Additional from JKUAT NISSIN	268,881,000	-		268,881,000
Surplus for the year			(57,728,576)	(57,728,576)
<b>As at 30 June 2019</b>	<b>2,898,069,023</b>	<b>1,350,892,790</b>	<b>667,830,070</b>	<b>4,916,791,883</b>
<b>Balance as at 30 June 2019</b>	<b>2,898,069,023</b>	<b>1,350,892,790</b>	<b>667,830,070</b>	<b>4,916,791,883</b>
GoK Grant – Development	81,484,446			81,484,446
Investment in NITP	100,000			100,000
Donations – Motor Vehicle		1,000,000		1,000,000
Surplus for the year			(207,494,250)	(207,494,250)
<b>As at 30 June 2020</b>	<b>2,979,653,469</b>	<b>1,351,892,790</b>	<b>460,335,819</b>	<b>4,791,882,078</b>

<b>7(a) SPECIAL ACCOUNTS AND GRANTS</b>	<b>2019/ 2020</b>	<b>2018/ 2019</b>
	<b>KES</b>	<b>KES</b>
Research and Projects Grants (Unidentified Credits)	31,264,571	23,894,483
UNDP-Entrepreneurship	89,764	89,764
3rd Country Training (A ) (FT )	248,999	248,999
Burnside Church Bursary Fund	-	7,065
JICA-3rd Country Training (Elec)	-	5,779
JKUAT/JACKSON Univ Projects	149,562	149,562
JICA Research	1,307,195	1,307,195
I.D.R.G. Research Grants	588,255	588,255
CIVIL ENGINEERING PROD	1,628,296	1,628,296
Dryland Sorghum & Millet Research	62,514	62,514
DAAD Scholarship	7,748,629	7,816,529
FAO Material (Research )	62,390	62,390
Incountry training	502,440	502,440
K.P.T.C/ J.K.U.A.T Energy	1,962,516	1,962,516
Simple Tel. Device	737,332	737,332
Rehabilitation of Horticulture	99,740	99,740
Agricultural Research Fund	187,237	187,237
F.A.O. Project (Prof. Oniang'o )	617,095	617,095
A.R.F - KARI Research Project	-	9,596
Research Project Admin. Fund	1,806,010	1,806,010
3 <sup>rd</sup> Country Training Horticulture	31,000	31,000
3 <sup>rd</sup> Country Training – Civil Eng	6,820,212	6,923,922
LVEMP Project	-	2,897
Cassava Processing Project	43,853	43,853
Biological Tick Control	22,483	22,483
FAO Advocacy/Training Material	265,476	265,476
WHO/Danish Bilhaziasis	15,456	15,456
IEET VOUCHER PROJECT	6,413,603	6,413,603
Rockefeller Project Prof Imbuga	81,446	81,446
Ushepia workshop fund	266,756	266,756
Pesticide Free Beans Project	325,328	325,328
American Chemical Society - Keriko	148,904	148,904
UNESCO Chair Biotechnology	1,688	1,688
Rockefeller Project Poverty Reduction	214,293	214,293
NUFU Funds –Norway	4,411,172	4,411,172
African vegetable Research project	6,572	5,572
Computerization Fund	100,603	100,603
CISCO	12,668,031	9,665,231
Rockefeller-Dr. Keriko	4,095	4,095
WAITRO	520,156	520,156
Inter-University C.E.A Prof Boga	1,648,108	1,648,108
IFS Grants	422,108	2,587,191
HIV AIDS	1,013,690	1,013,690

AICAD Research	948,697	948,697
International Institute for Trop Agr (IITA)	103,245	103,245
Roforum Project	179,673	179,673
VANILLA PROJECT	374,080	374,080
CHE RESEARCH PROJECT	1,214,135	1,214,135
Engineering Information Foundation	446,833	446,833
CFH Foundation Prof Anne Muigai	8,453	8,453
Pyrethrum post harvest handling project-Dr Gachanja	719,678	719,678
GCHERA Conference Sponsorship	2,368,836	2,368,836
Sweet Potato Becanet Project-Dr. Ateka	-	24
GTZ-Drought tolerant project	519,717	519,717
Rice Project-Prof.Kahangi	230,877	230,877
Indigenous Vegetables	-	2,440
Bio-Earn	2,939,897	2,939,897
KAPP	109,192	109,192
Kilimo Trust	102,015	102,015
NCST	23,262,655	40,397,048
AKTP- Dr. Waweru	651,366	651,366
EEAI	120,600	120,600
ASARECA	6,782,490	6,782,490
IDRC - Prof Elijah Ateka	119,024	325,346
Animal Health Information System	143,380	143,380
Macaulay Institute	31,716	31,716
Pennsylvania State University	7,722	7,722
Kaduna Project	4,520,760	4,520,760
HIV Self Testing - Dr Kenneth Ngure	2,371,403	2,671,403
HORTINLEA -Local Coordination	352,532	352,532
HORTINLEA - Sub Project 1 (Dr Wesonga)	35,615	66,575
HORTINLEA - Sub Project 6 (Prof M. Abukutsa-Onyango)	61,008	61,008
HORTINLEA - Sub Project 2 (Prof Losenge)	180,676	180,676
HORTINLEA - Sub Project 4 (Dr Wesonga)	178,447	178,447
WaterCraft Project - Dr Kiplimo	1,550,390	1,550,390
Kenya Coastal Devt. Project (KCDP) Research	127,575	127,575
Northern Corridor Integration Project (Dr. Kimani)	12,363,289	12,363,289
Ecosystem Services Project (PES) (Dr. Robert Mbeche)	285,251	822,539
BMGF	52,779	52,779
ECOTACT	13,000	13,000
HENNE project	841,476	841,476
Bournemouth University	4,579	4,579
RUFORUM	352,377	352,377
CASARD Project	202,600	202,600
Agribusiness Incubator Consortium	273,904	273,904
Centre for Health Solutions	266,366	323,162
Sorghum KAPAP Project	86,061	86,061
Thika Highway Scoping Study -Prof Zachary	268,000	268,000
EA Universities Accession Project Kenet	36,874	36,874

BEANS PROJECT-DR DANIEL SILA	2,008,422	4,037,109
KAPAP MANGO PROJECT-KARI	1,780	111,780
ILRI Project Esther Kahangi	17,375	17,375
GLOWS Project-Hannah Ngugi	48,170	48,170
ILRI Project Dr Daniel Sila	4,632	4,632
Baylor Project-Dr Mutwiwa	780,400	780,400
Storerrooms Project Dr Stephen Kimani	2,059,398	2,059,398
Bill and Melinda Gates Dr Amos Alakonya	-	863
Climate Change Impacts-Mark Boit	7,632	7,632
Computer Science for High Schools	10,000	10,000
JKUAT Institutional Repository	-	267
Fish Farming	72,866	72,866
Coconut Project - Dr Nyende	36,673	107,978
Ruforum -Dr John Bosco	339,942	543,475
DVL PLANT ANGRO-Prof Wariara Kariuki	12,663	12,663
Triple - L West Pokot - Dr Peter Mwangi	211,541	211,541
SOLAMACEAE GEMOMICS - Dr Willis Owino	11,035	18,535
Insurance Regulatory Authority - Dr Willy Muturi	312,848	312,848
JKUAT - KAPAP Training Curriculum - Nyori Mbugua	293,600	293,600
Renewable Energy for Food -Prof C. Kanali	918,157	918,157
GREENINSECT (DANIDA) -Dr Kinyuuru	52,800	52,800
Tropical Sweet Potato (ICGEB) - Dr S. Anami	-	1,154
Tsavo Project (WWF - EN) - Prof B. Mati	300,050	300,050
ELEFANS - Prof. A. Makokha	38,358	38,358
JENGA - Dr. Stephen Diang'a	2,135,765	2,204,220
LIANE - Dr Stephen Diang'a	1,466,523	1,466,523
METEGA - Dr Hiram Ndiritu	4,759,131	4,839,031
HORTINLEA Sub Project 13 -Prof Losenge	70,065	70,065
Postharvest Studies of Tomato - Dr Willis Owino	8,479	8,479
HORTINLEA -SP5 - Dr John Wesonga/Prof Zipporah Nganga	486,664	486,664
Online Networking Platform - FED/2013/335-687	855,162	855,162
SRI Labour Assessment Project - Prof Bancy Mati	-	125
Student for Development Project - Pamela Owour	891,030	891,030
PPFP Project - Dr Kenneth Ngure	7,308	7,308
Bayer EA Efficacy Project - Dr Lusonge Turoop	18,000	18,000
JKUAT - REHAU Biogas Project - NITP	-	578,118
HORTINLEA Sub Project 5 - Prof Glaston Kenji	197,359	197,359
JKUAT -Philips Insect Project (Dr John Kinyuru)	-	100
DIES Training - (JM Wesonga)	3,536	
HORTINLEA - (SP4 Dr. R. Kasili)	-	93
Careg Toxoplasmosis - Prof Naomi Maina	6,100	6,100
Dupont/Danisco - Dr Daniel Sila	427,654	727,654
AERC - Dr Daniel Sila	-	54
Bee Diversity in Amboseli National Park - Prof Mary Gikungu	586,637	586,637
Fruiting Africa - Dr Willis Owino	154,197	154,197
Kenyan-German Centre for Data Analysis-DAAD Funded	1,859,861	2,174,306

(P. Oyier)		
RUFORUM-Sorghum Chicken Feed - Dr Willis Owino	153,418	153,418
RUFORUM-ECOVEG - Dr Lucy Kananu Murungi	117,269	117,269
AFF Climate Change Project (Prof John Bosco Njoroge)	130,566	130,566
Schlumberger Shiftung Foundation (Prof. Wesonga)	19,500	19,500
Improving Care to HIV Infected Adolescents - Dr. Mburugu	606,043	513,797
BioStatistics - VLIR-UOS	864,244	1,118,803
VICINAQUA Project - Prof Kahangi/Prof Kinyua	2,098,274	3,418,274
BAOFOOD Project (Prof.W.O. Owino)	3,094	304,944
Grasshoppers Project - Dr John Kinyuru	1,326,445	2,692,320
UN Women - Prof Sila	412,035	1,012,035
Food Fortification - Prof Sila	189,955,910	151,603,295
Cassava (FAO)- Prof Ateka	137,036	2,694,602
IMO-EU Project on Climate Mitigation- Dr. Kiplimo	10,647,566	2,852,861
3R Aid to Trade Kenya Project - Prof Wesonga	323,426	80,679
Upper Tana Nairobi Water Fund	1,917,588	2,111,210
University Research Chair-NACOSTI)- Prof. Ikua	10,207,464	16,333,940
KEROCHE Foundation-Hakikisha Project-Prof A. Onyango	700,000	700,000
National Research Fund - PhD and Masters	51,199,364	33,990,382
Nairobi Urban Food Systems Project - FAO (Robert Mbeche)	5,031	805,281
Block Chain Technology Dr. Mindila	1,019	489,819
FAO Food Systems (SNA) Project	360,800	360,800
Microbial Culture Collection Project, Prof. Nyende	4,536,648	7,201,448
BioInnovate Sweet Potato - Prof Ateka	19,546	663,409
BioInnovate-Refractance Window Technology- Prof Onyango	676,620	2,023,298
HyCRISTAL Project - Dr Felix Mutua	779,226	4,686,445
INNO Food Project - Prof. Daniel Sila	408,556	90,198
Smart Harvest Project	-	1,800,000
ICT Research Fellowship - Calvins Otieno	1,849,722	1,849,722
Evaluation of Bio-Fumigants - Dr Lucy Kananu	845,760	920,760
Genomic Analysis - Prof Fred Wamunyokoli	1,734,420	2,034,420
Dev't of Value Added Novel Tree Products - Dr Evelyn Okoth	1,252	251,252
SAJOREC Research (Wuhan Botannical Garden), Prof Gituru	1,022,433	1,212,433
BabyWASH Project	730	730
NANCY WELSH FOUNDATION	204,686	126,667
Switch Africa Green	22,477	361,677
Food Systems and Sustainable Development (SASS)	566,227	738,552
FORTIS UNUM Mini-grid Clustering Project	263,646	409,161
STEP UP-Sustainable transition entrepreneurial production	639,867	2,193,317
Ento-Economy- Enhancing food and nutrition security	40,167	1,665,167
Amazing Amaranth		1,454,515
MSc and PhD in Engineering Sponsorship	164,913,087	105,437,860
TWAS Research Grant (Dr Cecilia Mweu)	216,735	102,426
FORUM FOR AFRICAN WOMEN VICE CHANCELLORS- FAWoVC (Prof Sila)	1,791,850	1,791,850
SMALL SCALE COMMUNITY BIOREFINING OF SORGHUM(Prof Willis)	2,129,561	3,965,332
Developing a Network to improve (GCRF) Prof Willis Owino	368	2,001,088

KGDA ENTERPRISE SYSTEMS short course	66,400	-
Landscape Foundation	329,134	371,603
NRF CROTALARIA PROJECT - Dr Eddy Odari	886,111	-
National Lactic Acid - Prof Maina Julius	131,715	-
JICA - FFS (Dr Robert Mbeche)	179,340	-
Cook Stoves Project - Dr Michael Wawire	454,980	-
IAEA Radiotherapy Training - Dr Michael Kahato	1,566,811	-
JSPS - NACOSTI SOLANACEAE - Prof Willis Owino	300,000	-
Cowpea LCEFONS Project - Githiri Mwangi	1,018,186	-
WIPO/ARIPO/JKUAT IP PROJECT(Eng B.K.Kariuki)	143,370	-
FAO-JKUAT - Dr Florence Kyallo	601,050	-
Education for Laser Based Manufacturing (ELbM)	724,842	-
Solar PV Technology - Prof Kanali	224,389	-
Integrated Agri-Energy Banana Project -Prof Kanali	8	-
Sorghum Value Chain - Prof Mamati	1,283,451	-
INSFeedFish - Dr Isaac Osuga	2,666,220	-
KCSAP Open Field Tomato - Prof Willis Owino	947,250	-
KCSAP Green House - Prof Willis Owino	2,009,416	-
KCSAP Finger Millet - Prof Kanali	205,788	-
KCSAP-ECF and Heart Water Vaccine-Dr Kagira	892,100	-
	<b>640,268,873</b>	<b>550,663,189</b>

#### 7(b) Amortisation of Special Accounts

	2019/2020	2018/2019
Opening Balance	550,663,189	429,905,622
Money In	386,124,635	371,688,463
Money Out	296,518,952	250,930,896
Closing Balance	640,268,872	550,663,189

**NOTES TO THE FINANCIAL STATEMENTS (Continued)**

**PROPERTY, PLANT AND EQUIPMENT FOR THE YEAR ENDED 30 JUNE 2020**

	WORK IN PROGRESS	LAND	BUILDINGS	COMPUTER & EQUIPMENT	FURNITURE & FITTINGS	PLANT & MACHINERY	MOTOR	TOTAL
Rates			2%	30%	10%	10%	20%	
<b>COST/VALUATION</b>								
As at 01.07.2019	866,143,822	4,192,675,031	4,504,296,292	728,800,408	272,703,322	430,021,700	234,626,705	11,229,267,280
Additions in the year	164,616,444	-	538,168,977	29,207,075	2,209,380	-	1,000,000	735,201,876
Transfers/Disposals	(538,168,977)	-	-	-	-	-	5,688,949	(543,857,926)
As at 30.06.2020	492,591,289	4,192,675,031	5,042,465,269	758,007,483	274,912,702	430,021,700	229,937,756	11,420,611,230
<b>DEPRECIATION</b>								
Accumulated at 01.07.2019	-	-	541,026,328	630,438,166	144,374,501	279,851,243	182,281,970	1,777,972,208
Accumulated Depreciation on Disposal	-	-	-	-	-	-	(5,688,949)	(5,688,949)
Charge for the period 30.06.2020	-	-	90,028,779	38,270,795	13,053,820	15,017,046	9,531,157	165,901,597
Accumulated as at 30.06.2020	-	-	631,055,107	668,708,961	157,428,321	294,868,289	186,124,178	1,938,184,856
NBV(30.06.2020)	492,591,289	4,192,675,031	4,411,410,162	89,298,522	117,484,381	135,153,411	43,813,578	9,482,426,374
NBV(30.06.2019)	866,143,822	4,192,675,031	3,963,269,964	98,362,242	128,328,821	150,170,457	52,344,735	9,451,295,072

**PROPERTY, PLANT AND EQUIPMENT FOR THE YEAR ENDED 30 JUNE 2019**

	<b>WORK IN PROGRESS</b>	<b>LAND</b>	<b>BUILDINGS</b>	<b>COMPUTER &amp; EQUIPMENT</b>	<b>FURNITURE &amp; FITTINGS</b>	<b>PLANT &amp; MACHINERY</b>	<b>MOTOR</b>	<b>TOTAL</b>
<b>Rates</b>			2%	30%	10%	10%	20%	
<b>COST/VALUATION</b>								
<b>As at 01.07.2018</b>	779,626,519	4,192,675,031	4,296,014,292	709,114,547	260,285,422	430,021,700	234,626,705	10,902,364,216
<b>Additions in the year</b>	294,799,303	-	208,282,000	19,685,861	12,417,900	-	-	535,185,064
<b>Transfers</b>	(208,282,000)	-	-	-	-	-	-	(208,282,000)
<b>As at 30.06.2019</b>	866,143,822	4,192,675,031	4,504,296,292	728,800,408	272,703,322	430,021,700	234,626,705	11,229,267,280
<b>DEPRECIATION</b>								
<b>Accumulated at 01.07.2018</b>	-	-	460,143,268	588,282,919	130,115,743	263,165,637	169,195,786	1,610,903,353
<b>Charge for the period 30.06.2019</b>	-	-	80,883,060	42,155,247	14,258,758	16,685,606	13,086,184	167,068,855
<b>Accumulated as at 30.06.2019</b>	-	-	541,026,328	630,438,166	144,374,501	279,851,243	182,281,970	1,777,972,208
<b>NBV(30.06.2019)</b>	866,143,822	4,192,675,031	3,963,269,964	98,362,242	128,328,821	150,170,457	52,344,735	9,451,295,072
<b>NBV(30.06.2018)</b>	779,626,519	4,192,675,031	3,835,871,024	120,831,628	130,169,679	166,856,063	65,430,919	9,291,460,864

## NOTES TO THE FINANCIAL STATEMENTS (Continued)

## Note 8

## PROPERTY, PLANT AND EQUIPMENT

## WORK IN PROGRESS AS AT 30.06.2020

DETAILS	BAL B/F	ADDITIONS	TRANSFERS	BALANCE
Science Complex	272,014,360		272,014,360	-
Ace Building – Karen	30,709,376	122,977	30,832,353	-
Extension of Admin block	236,479,695	41,848,451		278,328,146
Construction of Jkuat Boundary Wall	50,698,799			50,698,799
Construction of Classroom-jkuates	13,180,736		13,180,736	-
Construction of New Common Lec Building	222,870,900	(10,000,000)	212,870,900	-
Water Bottling Plant	1,038,314			1,038,314
Renovation of Student Centre	3,765,700	200,000	3,965,700	-
Construction of Maize Store	330,568		330,568	-
Agriculture Lab Building	4,974,360		4,974,360	-
Construction of COETEC Lectures	30,081,014	132,445,016		162,526,030
<b>TOTAL</b>	<b>866,143,822</b>	<b>164,616,444</b>	<b>(538,168,977)</b>	<b>492,591,289</b>

NOTES TO THE FINANCIAL STATEMENTS (Continued)

WORK IN PROGRESS AS AT 30.06.2019

DETAILS	BAL B/F Kshs	ADDITIONS Kshs	TRANSFERS Kshs	BALANCE Kshs
Science Complex	268,473,094	3,541,266	-	272,014,360
Ace Building-Karen	30,680,626	28,750	-	30,709,376
Extension of Admin block	215,686,880	20,792,815	-	236,479,695
Construction of Jkuat Boundary Wall	50,698,799	-	-	50,698,799
Construction of Classroom-jkuates	13,180,736	-	-	13,180,736
Construction of New Common Lec Building	199,893,118	22,977,782	-	222,870,900
Water Bottling Plant	1,013,266	25,048	-	1,038,314
Renovation of Student Centre	-	3,765,700	-	3,765,700
Construction of Maize Store	-	330,568	-	330,568
Agriculture Lab Building	-	4,974,360	-	4,974,360
SAJOREC	-	208,282,000	(208,282,000)	-
Construction of COETEC Lectures	-	30,081,014	-	30,081,014
<b>TOTAL</b>	<b>779,626,519</b>	<b>294,799,303</b>	<b>(208,282,000)</b>	<b>866,143,822</b>

**NOTES TO THE FINANCIAL STATEMENTS (Continued)****9. INVENTORIES**

	<b>2019/ 2020</b>	<b>2018/ 2019</b>
	<b>KSHS</b>	<b>KSHS</b>
Central stores	12,068,734	13,792,059
Drug store	3,961,748	5,159,279
Petrol pump	1,489,149	1,980,562
Catering Store	1,566,635	2,020,308
Taifa Laptop Store	8,030,484	1,946,784
Karen Campus - Main store	-	9,146,190
<b>TOTAL</b>	<b>27,116,750</b>	<b>34,045,182</b>

**10. TRADE AND OTHER RECEIVABLES**

Capitation grant receivable	547,808,861	428,898,030
<b>Receivables from Exchange Transactions</b>		
NHC- Houseloan	-	10,085
N.B.K. Car loans Defaulters	1,172,928	1,279,400
Staff Housing Mortgage Scheme	1,086,796	1,086,796
Staff Housing Co-op	2,758,109	2,758,109
Staff Loan Repayment - NBK Bank	-	1,300,543
JKUAT Benevolent Fund	1,429,448	-
JKUAT-SRISTI-USAID Project	-	1,321,695
DIES Training - JM Wesonga	-	100,652
Training for Women Enterprise Fund	-	77,199
Smart Harvest Project	2,525,600	-
Dept Petty Cash	104,758	55,500
Sundry Debtors	208,898,757	219,079,054
Staff Benefits Debtor's Account	-	34,503,264
Student Debtors	3,375,860,409	3,480,489,652
Guarantee Deposits	22,651,544	25,321,069
Kenet Trust Fund	1,458,776	1,458,776
Kimathi Institute	3,565,696	3,565,696
Multimedia University	-	67,760
J.K.U.S.O	75,745,520	73,232,329
Accrued Interest receivable	48,574	70,318
<b>SUB-TOTAL</b>	<b>4,245,115,776</b>	<b>4,274,675,927</b>
<b>LESS</b>		
Provision for bad debts	424,511,578	427,467,593
<b>TOTAL</b>	<b>3,820,604,198</b>	<b>3,847,208,334</b>

**NOTES TO THE FINANCIAL STATEMENTS (Continued)**

11(a) CASH AND BANK BALANCES	2019/ 2020	2018/ 2019
	<u>KSHS</u>	<u>KSHS</u>
KCB Fixed Deposit	20,459,059	32,432,530
3rd Country Training Horticulture	771,910	442,650
JKUAT Architecture Horizons DAT A/C (KCB)	53,551	58,591
Bank A/C 3rd Country Training (E & E Eng.)	428,413	2,118,918
Bank A/C 3rd Country Training (Food Science)	50,988	56,028
BANK A/C KCB-Main	-	80,972,397
Bank A/C (KCB) Project Current Account	68,554,114	486,008
Bank A/C (KCB) Payroll	140,643,689	685,978
Bank A/C(KCB) Hospital	294,962	298,434
BANK A/C(KCB) Taifa Laptop	634,806	1,570,526
Bank A/C(KCB) SoDEL	888,690	-
Bank A/C (KCB) Mombasa CBD	114,437,585	88,546,892
Standard Chartered Bank- Student fees	11,464,739	9,393,315
KCB - Incountry Training	465,466	470,506
NBK - CISCO Ruiru	2,389,742	2,961,342
KCB - JKUAT IT	647,631	-
KCB -Bank A/C CoHES	241,143	1,222,637
KCB - SABS	151,427	148,515
NBK Student Bursary	13,249	17,009
Standard Chartered Bank A/C Karen Campus	628,506	550,546
KCB JKUAT Babaroa	314,829	319,869
KCB JKUAT Staff Housing Devt. Bank A/C	186,787	191,827
KCB Dollar A/C	14,967,458	18,701,246
NBK Fees A/C	1,302,602	7,115,186
KCB SAJOREC	342,573	3,912,362
KCB Nairobi CBD Bank A/c	548,281	150,575
KCB Westlands Campus Bank A/c	2,841,781	2,605,426
BBK Nairobi CBD Bank account	4,150,553	3,744,347
JKUAT Industrial & Tech Park Bank A/C (KCB)	99,447	5,105,087
JKUAT Endowment Fund Bank A/C	449,391	336,031
Fundilima FOSA Bank Account	2,376,640	3,309,444
BBK Agriculture bank Account	187,908	660,152
KCB Arusha Bank A/c	1,048,794	1,313,991
KCB EURO A/c	193,668,252	95,416,401
COOP Bank IGU A/C	4,745,895	5,531,611
Cooperative Bank - Kitale/Eldoret Campus A/c	4,131,681	-
Ecobank	347,062	361,462
Cooperative Bank - Kisii Campus A/c	1,111,468	2,604,245
KCB Kigali Bank A/c	3,396,182	4,350,706
Equity Bank Kakamega A/c	852,646	4,251,871
	<b>600,289,900</b>	<b>382,414,661</b>

**11 (b) BANK OVERDRAFT**

KCB Main Bank A/c	50,960,682	-
KCB SoDEL Bank A/C	-	37,554,505
KCB ADP Bank A/c	3,367,870	15,042,959
KCB I.T Centre Bank A/C Ruiru	-	1,444,681
Equity Fees A/C	4,393,243	12,115,518
Cooperative-Fees Account	2,757,496	21,859,560
BBK Students Fees Bank A/c	48,271	23,108,133
KCB Karen Campus Bank A/C.	560,632	848,318
BBK SHRD Bank A/c	1,200,330	7,065,575
BBK COETEC Bank A/C	86,648	2,995,777
Cooperative Bank - Kitale/Eldoret Campus A/c	-	3,910,132
NBK Main A/c	1,953,994	6,362,844
<b>TOTAL</b>	<b>65,329,166</b>	<b>132,308,002</b>

**12 NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 JUNE 2020**

<b><u>TRADE AND OTHER PAYABLES</u></b>	<b>2019/2020</b>	<b>2018/2019</b>
	<b>KSHS</b>	<b>KSHS</b>
Imprest recoveries	3,815,149	3,490,745
Miscellaneous Deduction	-	878,082
Students activity fund	50,573,667	18,955,985
Deposit in Transits	7,214,859	12,052,466
Alumni Association	6,731,881	3,761,349
K.N.A. Loans	-	546
Insurance Claims	68,805,627	66,841,026
Pension Scheme Refunds	-	788,629
Sundry Creditors	5,147,644,096	4,491,451,542
Student Fee Prepayments	756,905,231	731,840,576
Customer Rent deposits- JKUAT Towers (ICEA)	32,616,771	33,438,224
CUE	64,540,342	-
JKUAT Wanachuo Investments	22,952,745	22,952,745
Provision for Leave Pay	-	21,856,060
	<b>6,161,800,368</b>	<b>5,408,307,975</b>

### 13. INVESTMENTS

Investment in JKUAT Entrepise	2019/2020	2018/2019
Balance (Kshs)	25,644,004	25,644,004

JKUAT Enterprises is a wholly owed Company of JKUAT. The University put an initial capital investment up to Kshs.25.6 million.

Investment in Nissin Holdings	2019/2020	2018/2019
Balance (Kshs)	418,881,000	418,881,000

Nissin Holdings is 100% owned by JKUAT.

Investment in NITP	2019/2020	2018/2019
Balance (Kshs)	100,000	-

Nairobi Industrial and Technology Park (NITP) is a JKUAT/GoK/ Private Sector initiative.

### 14. BANK LOAN

	2019/2020	2018/ 2019
a) Current liability	436,895,462	314,845,882
b) Long term liability	2,302,145,279	2,861,090,321
<b>Total loan</b>	<b>2,739,040,741</b>	<b>3,175,936,203</b>

The University has the above long term loans borrowed from Kenya Commercial Bank as follows;

- KCB loan of Kshs.2.5B at 14% for a period of 10 years
- KCB loan of Kshs.1.89B at 16% for a period of 11 years

### 15. BIOLOGICAL ASSETS

	2019/2020	2018/2019
<b>Balance (Kshs)</b>	<b>5,830,000</b>	<b>7,090,000</b>

Biological Assets in the university are valued on the basis of prevailing market rate less costs to sell as at the closure of the financial year

### 16. ERP SOFTWARE


The University procured an ERP Software at a cost of KES 17,428,999 in the year 2018/2019


	2019/2020	2018/2019
Balance (KShs)	17,428,999	17,428,999

**PROGRESS ON FOLLOW UP OF AUDITOR RECOMMENDATIONS**

The following is the summary of issues raised by the external auditor, and management comments that were provided to the auditor. We have nominated focal persons to resolve the various issues as shown below with the associated time frame within which we expect the issues to be resolved.

Reference No. on the external audit Report	Issue/Observations from Auditor	Management Comments	Focal Point Person to resolve the issue (Name and designation)	Status: (Resolved / Not Resolved)	Timeframe: (Put a date when you expect the issue to be resolved)
	<p><b>1. Going Concern</b> The Current Liabilities of Kshs. 6,406,125,048 exceeds the current assets amount of Kshs. 4,263,668,177 rendering the the University technically insolvent</p>	<ul style="list-style-type: none"> <li>The University has continued to appeal for enhanced government funding and implementation of the differentiated cost unit for the highly technical and specialized courses offered.</li> <li>The University has also sought concurrence from the Ministry of Education and National Treasury to dispose fixed asset in order to offset some of the liabilities</li> </ul>	<ul style="list-style-type: none"> <li>Ministry of Education</li> <li>University Management</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Budget Allocation in FY2020/2021 and 2021/2022</li> <li>Procurement process in FY 2020/2021-2021/2022</li> </ul>
	<p><b>2. Trade and Other Receivables</b> There have been long outstanding balances relating to loan defaulters</p>	<ul style="list-style-type: none"> <li>The University implemented a management system to manage all student matters from entry to exit. This will ensure there is no accumulation of student fee balances.</li> <li>Further, verification and validation of all long outstanding balances is being undertaken at departmental/college and campus level in order to ascertain their validity and recoverability.</li> </ul>	<ul style="list-style-type: none"> <li>University Management</li> </ul>	Ongoing	FY2020/2021
	<p><b>3. Trade and Other Payables</b> There was a variance of Kshs.10,625,361 between individual student statements and the fee prepayments schedule under Trade and Other Payables</p>	<ul style="list-style-type: none"> <li>The University undertook an analysis and reconciliation of the student prepayment schedule versus the individual student ledgers and necessary adjustments passed.</li> </ul>	<ul style="list-style-type: none"> <li>University Management</li> </ul>	Resolved	FY2020/2021
	<p><b>4. Unsupported payments to former staff</b> There were amounts paid to officers who had already exited the University by June 2019</p>	<ul style="list-style-type: none"> <li>The University made efforts to reach the former staff and recovered substantial amounts and is aggressively pursuing recovery of the outstanding amount. Internal controls have also been instituted to ensure that all disengagement are promptly effected in the payroll awaiting the administrative processes on exit.</li> </ul>	<ul style="list-style-type: none"> <li>University Management</li> </ul>	Ongoing	FY2020/2021

Sign: .....  
  
 Prof. Victoria Wambui Ngumi, Ph.D.,  
 Vice Chancellor

Sign: .....  
  
 Ambassador (Eng) Mahboub Maahim Mohammed,  
 Chairperson of the University Council

**APPENDIX 1: UNIVERSITY LOANS SCHEDULE**

The University has the following long term loans borrowed from Kenya Commercial Bank;

Date	JKUAT TOWERS (ICEA) (AA16226JHPQP)		KENYATTA RD 1 (AA16226CGQ00)		KENYATTA ROAD 2 (AA16226Z1KVQ)	
	Principal	Interest	Principal	Interest	Principal	Interest
<b>Balance</b>						
<b>30.06.2019</b>	<b>1,590,041,394</b>	<b>-</b>	<b>1,100,780,147</b>		<b>485,114,662</b>	<b>-</b>
Jul-19	-	-	30,759,098	5,637,834	15,053,424	-
Aug-19	21,027,182	43,149,581	24,237,933	31,784,898	14,748,126	15,406,975
Sep-19	14,674,010	17,323,639	19,476,545	11,282,553	10,026,268	4,974,712
Oct-19	-	-	-	-	-	-
Nov-19	33,133,242	30,962,869	41,847,871	19,767,238	21,320,022	8,813,633
Dec-19	15,743,654	16,253,994	20,240,225	10,518,874	10,523,367	4,530,056
Jan-20	-	4,746,604	-	-	-	-
Feb-20	15,418,167	11,918,502	20,140,281	17,571,335	10,500,223	4,600,500
Mar-20	16,455,987	15,580,566	20,912,053	3,573,601	10,850,594	4,221,133
Apr-20	17,201,162	14,874,095	21,489,602	8,809,061	11,116,428	3,973,601
May-20	-	-	-	-	-	-
Jun-20	-	-	-	-	-	-
<b>TOTAL</b>	<b>133,653,403</b>	<b>154,809,850</b>	<b>199,103,608</b>	<b>108,945,394</b>	<b>104,138,452</b>	<b>46,520,610</b>

**APPENDIX 2: INTER-ENTITY TRANSFERS****JOMO KENYATTA UNIVERSITY OF AGRICULTURE & TECHNOLOGY**  
Breakdown of Transfers from the Ministry of Education Financial Year 2019/2020

A	Recurrent Grants	Bank Statement Date	Amount (Kshs)	FY to which the amounts relate
		08.08.2019	234,545,205	2019/2020
		29.08.2019	234,545,205	2019/2020
		27.09.2019	234,545,203	2019/2020
		01.11.2019	234,545,205	2019/2020
		29.11.2019	234,545,205	2019/2020
		27.12.2019	234,545,204	2019/2020
		04.02.2020	234,545,205	2019/2020
		02.03.2020	234,545,205	2019/2020
		03.04.2020	234,545,204	2019/2020
		08.05.2020	234,545,205	2019/2020
		05.06.2020	234,545,205	2019/2020
		26.06.2020	234,545,204	2019/2020
		<b>TOTAL</b>	<b>2,814,542,455</b>	2019/2020
<b>B</b>	<b>Supplementary II Estimates</b>	25/06/2020	131,632,800	2019/2020
		06/07/2020	547,808,861	2019/2020
		<b>TOTAL</b>	<b>679,441,661</b>	
<b>C</b>	<b>Development Grants</b>	12.02.2020	81,484,446	2019/2020
		<b>TOTAL</b>	<b>81,484,446</b>	

The above amounts have been communicated to and reconciled with the Ministry of Education.

Sign



CPA Mary Ngugi  
Ag. Finance Officer  
JKUAT

Sign



Mr. Robert Samuel  
Asumani  
Chief Accountant  
SDUER, Ministry of  
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