



KIBABII UNIVERSITY

7th **Biennial International Conference**

CONFERENCE *Program*

THEME:
"HARNESSING INNOVATION FOR
SUSTAINABLE GROWTH"



11TH – 12TH
JUNE, 2025

KIBABII UNIVERSITY 7TH BIENNIAL VIRTUAL INTERNATIONAL CONFERENCE

THEME:
**“HARNESSING INNOVATION FOR
SUSTAINABLE GROWTH”**

11TH – 12TH JUNE, 2025



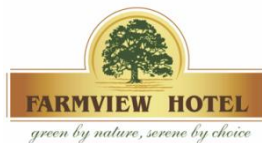
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NABUALA MEDICAL CENTRE



KIBABII UNIVERSITY

7TH BIENNIAL INTERNATIONAL CONFERENCE (VIRTUAL)

Conference Objective

To provide a forum for academicians, researchers, entrepreneurs, students, and other stakeholders to present their research and expert opinions on harnessing sector-specific innovations to drive sustainability, enhance resilience, and promote inclusive growth in response to global trends

CONFERENCE PROGRAM

OVERARCHING THEME

Harnessing Innovation for Sustainable Growth

S/N	Sub-theme	Strands	Statistics	Total
1)	Agriculture and Food Security	<ul style="list-style-type: none"> - Smart farming technologies and climate-resilient agriculture - Agro-industrial value chains for sustainable rural development - Food safety, nutrition, and emerging dietary trends - Innovations in water soil management for agricultural productivity - Digital tools for precision farming and supply chain management 	23	167
2)	Health and Well-Being	<ul style="list-style-type: none"> - Telemedicine and AI in healthcare delivery - Public health innovations for pandemics and disaster preparedness - Mental health in the digital age - Biotechnology and personalized medicine advancements - Sustainable healthcare systems and universal health coverage 	29	
3)	Energy and Environment	<ul style="list-style-type: none"> - Renewable energy technologies and grid modernization - Climate-smart solutions for energy-intensive industries - Conservation strategies for biodiversity and ecosystems. - Waste-to-energy innovations and circular economy practices - Carbon-neutral cities and green building technologies 	8	
4)	Education and Human Capital Development	<ul style="list-style-type: none"> - Digital learning platforms and AI-driven education models. - Skills development for future job markets - Inclusive education for marginalized and rural communities. - Lifelong learning strategies in a dynamic world - Academic-industry research partnerships for societal impact 	39	
5)	Governance and Policy Innovation	<ul style="list-style-type: none"> - E-governance and digital public service delivery - Policy frameworks for sustainable urban and rural development - Data-driven decision-making for public policy effectiveness. - Ethics and accountability in digital governance - Inclusive policy-making for climate and economic resilience 	15	
6)	Cross Cutting Issues	<ul style="list-style-type: none"> - Business and Industry - ICT and Digital Transformation - Science, Technology, Engineering, and Mathematics (STEM) - Social Sciences and Humanities - Law and Policy - Digital Forensic and Justice management 	53	

CHIEF GUEST

Prof. Miriam Kinyua

Professor of Plant Breeding and Biotechnology,
University of Eldoret, Kenya

Key-Note Speakers

S/N	Sub-theme	Name and Affiliation
1.	Agriculture and Food Security	Sharon Basada Singzon, D.Tech.Sc. Associate Professor and Dean, Graduate School Eastern Samar State University, Philippines Prof. Chrisantus M. Tanga Research Scientist Insects for Food, Feed and other Uses (INSEFF) Program; International Centre of Insect Physiology & Ecology (ICIPE) P.O. Box 30772-00100, Nairobi, Kenya
2.	Health and Well-Being	Prof. Collins Ouma Maseno University, Kenya Prof. Fabian Esamai Faculty of Health Sciences, Moi University, P.O. Box 4606 30100, Eldoret, Kenya
3.	Energy and Environment	Mr. Issak Elmi Deputy Director, National Environment Management Authority (NEMA) P.O. BOX 67839-00200, Nairobi, Kenya
4.	Education and Human Capital Development	Prof. Fredrick Muyia Nafukho Foster School of Business University of Washington, Seattle, Washington, USA
5.	Governance and Policy Innovation	Prof. Maurice Amutabi Deputy Vice Chancellor, Academic and Student Affairs (DVC-ASA); P.O. BOX 62157-00200 Nairobi, Kenya Technical University of Kenya (TUK)
6.	Cross Cutting Issues	Prof. Calvin Odera University of Florida, USA/ Associate Center Director, Extension Weed Specialist

Participating Institutions, Organizations and Respective Countries

S/N	Name of Institution or Organization	City/Country
1.	Acacia Community Development Group	Busia, Kenya
2.	Ahmadu Bello University	Zaria, Nigeria
3.	Alupe University	Busia, Kenya
4.	Bayero University	Kano, Nigeria
5.	Bungoma National Polytechnic	Bungoma, Kenya
6.	County Government of Bungoma	Bungoma, Kenya
7.	Daystar University	Kenya
8.	ELTE Eötvös Loránd University	Budapest, Hungary
9.	Federal University of Health Sciences	Azare, Nigeria
10.	Garissa University	Kenya
11.	Jomo Kenyatta University of Agriculture and Technology (JKUAT)	Kenya
12.	Juba University	Juba, South Sudan
13.	Kabarak University	Kenya
14.	Kaduna State University	Nigeria
15.	Kaimosi Friends University (KAFU)	Kenya
16.	Kenya Plant Health Inspectorate Service	Kenya
17.	Kenya Universities and Colleges Central Placement Service (KUCCPS)	Kenya
18.	Kenyatta University (KU)	Kenya
19.	Kibabii University (KIBU)	Bungoma, Kenya
20.	Laikipia University	Kenya
21.	Maseno University	Kenya
22.	Masinde Muliro University of Science and Technology (MMUST)	Kenya
23.	Moi University	Kenya
24.	Mount Kigali University	Kigali, Rwanda
25.	National Open University of Nigeria	Nigeria
26.	Nigeria Police Academy	Nigeria
27.	Pioneer International University	Kenya
28.	Pwani University	Kenya
29.	Tharaka University	Kenya
30.	Turkana University College	Kenya
31.	University of Dodoma	Dodoma, Tanzania
32.	University of Eldoret (UoE)	Kenya
33.	University of Nairobi (UoN)	Kenya
34.	Mount Kenya University	Kenya

CONFERENCE SUB-COMMITTEES

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S/N	Prof. Julius Maiyo	Chairperson
1.	Dr. Paul Obino	Vice Chair
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7.	Dr. Ruth Mitalo	Member
8.	Sr. Dr. Jacklyne Alari	Member
9.	Dr. Lucy Chikamai	Member
10.	Dr. Kefa Nyende	Member
11.	Dr. Ben Nyongesa	Member
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6.	Dr. Benson Nasongo	Member
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CONFERENCE PROGRAM

OPENING MEETING

DAY ONE, WEDNESDAY 11TH JUNE 2025

CONFERENCE OPENING CEREMONY

https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1		
Time	Chair: Prof. Stanley Mutsotso	Rapporteur: Sr. Dr. Jacklyne Alari
08.00 – 09.00	Guests and Delegates log-in	Session MC: Dr. B. Singoro Dr. M. Wakoko
	Official Opening	
09.00 – 09.10	Prayer – Rev. Fr. Dr. Leonard Juma Anthems – Dr. Janet Nabiswa	
09.10 – 09.15	Remarks by DVCs <ul style="list-style-type: none"> - Prof. Joshua O. Ogendo, DVC (ASA) - Prof. Donald Siamba, DVC (AFD) - Prof. Julius Maiyo, DVC (PPRI) 	Prof. Julius Maiyo, DVC (PPRI)
09.15 – 09.30	Vice Chancellor's Remarks	Prof. Isaac Ipara Odeo, VC
09.30 – 09.45	Chairperson of University Council	Chair of Council
09.45 – 10.45	Chief Guest's Address	Prof. Mirriam Kinywa
10.45 – 11.00	Plenary	
11.00 – 11.30	Health Break and Photo Session	Ms. Elfrida Chepkirui
	Chair: Prof. E. Mohochi	Rapporteur: Dr. P. Owoche
11.30 – 11.50	Sub-theme 1: Agriculture and Food Security	Prof. Sharon Basada
11.50 – 12.10	Sub-theme 2: Health and Well-being	Prof. Collins Ouma
12.10 – 12.30	Sub-theme 3: Energy and Environment	Mr. Assak Elmi
12.30 – 12.50	Sub-theme 5: Governance and Policy Innovation	Prof. Maurice Amutabi
12.30 – 12.50	Sub-theme 1: Agriculture and Food Security	Prof. Chrisantus M. Tanga
12.50 – 1.10	Plenary	
1.10 – 1.20	Announcements & Vote of Thanks	
1.30pm – 2.00pm Lunch Break		

-END OF OPENING SESSION-

BREAK-OUT / PARALLEL SESSIONS

START OF PAPER PRESENTATIONS

<p style="text-align: center;">Link to Virtual Meeting Room #1 https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #1: AGRICULTURE AND FOOD SECURITY</p>		
Time	Chair: Prof. S. Aywa Rapporteur: Dr. L. Namusonge Paper Title	Author(s)
2.00 – 2.15	Evaluation of integrated nutrient management options for maize production in humid and sub-humid zones of Western Kenya	Makokha <i>et.al</i> ,
2.15 – 2.30	Aqueous Precipitation of Struvite from Wastewater and Hot Spring Water as an Alternative Inorganic Fertilizer	Maingi <i>et.al</i> ,
2.30 – 2.45	Enhancing Iron uptake in Spinach (<i>Spinacia oleracea</i>) through complexation of Iron with Biochar derived from Sugarcane bagasse	Mutungi <i>et.al</i> ,
2.45 – 3.00	Exploring Hydroponics Farming as a Potential Supplement to Increased Food Production in Urban Settlements	Loyce Hamba
3.00 – 3.15	Cellulose-Based Superabsorbent Hydrogels Derived from Eucalyptus Leaves for Sustainable Maize Farming in Arid and Semi-Arid Regions in Kenya	Alielo <i>et.al</i> ,
3.15 – 3.30	Preclinical Evaluation of <i>Tylosema fassoglense</i> Root and Leaf Extracts Against <i>Salmonella typhimurium</i> : Exploring Indigenous Therapies for Antimicrobial Resistance Control	Simiyu <i>et.al</i> ,
3.30 – 3.45	Determinants of utilization of banana value addition among small-scale agripreneurs in Kenya: A case of Kisii County	Nyabwari <i>et.al</i> ,
3.45 – 4.00	Factors Hindering Exclusive Breastfeeding among Lactating Mothers in Kakamega County	Wafula <i>et.al</i> ,
Announcements and Day Break		

NOTE:

Time indicated is in EAT

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For any issues, contact: steveogallo@kibu.ac.ke

Breakout to Room #2 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #2: HEALTH AND WELL-BEING		
Time	Chair: Dr. S. Senghor	Rapporteur: Dr. C. Namai
	Paper Title	
2.00 – 2.15	Mental Health and Realization of Sustainable Development Goals Among Catholic Religious and Priests in Kenya	Jacklyne Okello Alari
2.15 – 2.30	Aerodynamic performance comparison of inverse designed airfoil and airfoil shape obtained after short ice accretion time	Ibrahim K. Rotich
2.30 – 2.45	Determinants of Malaria In Under 5 Children in Yala	Siebela <i>et.al</i> ,
2.45 – 3.00	Telemedicine and AI in Healthcare Delivery: A Review	Salihu A.K
3.00 – 3.15	Prevalence of <i>Ascaris Lumbricoides</i> Infections in Relation to Malnutrition and Risk Factors among Children Attending Kapsowar Hospital	Jumbe Masafu
3.15 – 3.30	Prevalence, Risk Factors, and Management of Substance Abuse among Students at Kenya Medical Training College	Varelian Gicuku Anyira
3.30 – 3.45	Adolescents and Parents: Navigating Ethical Dilemmas in the Relationship Dynamic for mental health	Leunita M. Makila
3.45 – 4.00	Assessment of Risk Factors Associated with HPV Infection Among Women 30-49 Years Attending Selected Hospitals Kilifi County, Kenya	Jane Kabo
4.00 – 4.15	Birth Preparedness and Complication Readiness among Pregnant Women at Kakamega County General and Referral Hospital: A Mixed Methods Study	Kisorio <i>et.al</i> ,
4.15 – 4.30	The Hidden Power of Nutrition in Safeguarding Prostate Health	Nwachukwu Francis Chukwuedozie
4.30 – 4.45	Predictors of Weight Status among Under-Fives in Kondele Ward	Onyango <i>et.al</i> ,
4.45 – 5.00	Situation Analysis of HIV, Hepatitis B, and Syphilis among Pregnant Women: A Case of Burco General Hospital, Somaliland	Abdirisak M. Osmana & Lucy N. Namusonge
Announcements & Day Break		

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Breakout to Room #3 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TViJ9E8d.1 SUB-THEME #3: ENERGY AND ENVIRONMENT		
Time	Chair: Dr. M. Konje Rapporteur: Ms. J. Rotich Paper Title	Author(s)
2.00 – 2.15	A Survey Conducted for the Proposed Internet of Things and Deep Learning Based Beach Litter Monitoring Model for Marine Environment Conservation towards Sustainable Blue Economy	Zachariah M. Mwangi
2.15 – 2.30	Climate Refugees	Milcah N. Nyongesa
2.30 – 2.45	Towards Bridging Climate Perception and Reality: Divergence between Farmers' Observations and Meteorological Data	Ombogo <i>et.al</i> ,
2.45 – 3.00	Long-Term Assessment of the Spatial-Temporal Trends in Selected Cloud Radiative Properties over the three distinct sites in Kenya	Makokha <i>et.al</i> ,
3.00 – 3.15	Environmental Consciousness and Cultural Identity: An Ecocritical Study of Unbowed by Wangari Maathai.	Christine Namayi & Joseph Musungu
3.15 – 3.30	Ecocriticism and Travel Studies	Milcah N. Nyongesa
3.30 – 3.45	The role of children's literature in the fight against climate change: An analysis of selected children's art and poems about climate change around the world	Dennis Wabuyaka
3.45 – 4.00	Community Vulnerability to Flood Risk in the Gucha-Migori River Basin, Kenya	Ogallo <i>et.al</i> ,
Announcements & Day Break		

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Breakout to Room #4 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #4: EDUCATION AND HUMAN CAPITAL DEVELOPMENT		
Time	Chair: Dr. E. Wamalwa Rapporteur: Mr. Z. Amayi Paper Title	Author(s)
2.00 – 2.15	Integrating 3D Printing into STEM Education: Building Innovation Capacity in Emerging Economies	Joan C. Kiptoo
2.15 – 2.30	Effect of Role Modelling on Professional Conduct of Teachers in Public Secondary Schools in Western, Kenya	Mary Maruti & Julius K. Maiyo
2.30 – 2.45	Supporting the Doctoral Supervisor: The Why, How and Who?	Irene Simiyu
2.45 – 3.00	Teachers' Pedagogical Content Knowledge on Learners' Mathematical Competencies in Junior Schools, Bungoma County, Kenya	Pembere <i>et.al</i> ,
3.00 – 3.15	The Translation of Ngugi wa Thiong'o's Weep Not Child as Usilie Mpenzi Wangu: Does the End Justify the Means?	Emmanuel Kilatu
3.15 – 3.30	Understanding the Causal Symptomatic and Curative Factors of Suicide amongst Secondary School Students in the Western Region of Kenya	Christine J. Nabwire
3.30 – 3.45	Innovate or Stagnate: The Crucial Role of Skill Development in Future Careers	Josephine M. Maingi
3.45 – 4.00	A Peek into the Language of Mathematics: Evidence from Undergraduate Secondary Education Students of Mathematics	Philip K. Mwei
4.00 – 4.15	An Evaluation of the Effectiveness School Practice and Mentorship in Higher Education Institutions	Julius K. Maiyo
Announcements & Day Break		

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<p>Breakout to Room #5 via Link Below</p> <p>https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1</p> <p>SUB-THEME #4: EDUCATION AND HUMAN CAPITAL DEVELOPMENT</p>		
Time	Chair: Dr. C. Sirai Rapporteur: Dr. E. Simiyu Paper Title	Author(s)
2.00 – 2.15	Bridging the Digital Divide; The Influence of Teachers' Perception on Integration of Digital Technologies in Early Years of Education in Kenya	Otieno Violet Rose
2.15 – 2.30	Effective Communication for Inclusivity in Working Towards the Attainment of Beta and Vision 2030	Ernest S. Mohochi & Samuel K. Wakahia
2.30 – 2.45	Exploring Academic Challenges and its Role in High Undergraduate dropout rate in Kenyan Universities	Wechuli S. Christopher
2.45 – 3.00	Impact of Financial Management Skills of Head-teachers on Competency Based Curriculum implementation in Junior schools in Bungoma South Sub-county	Jane Nyanchama Nyakoe
3.00 – 3.15	Cloud Computing Infrastructure and System Security as a Service for Sustainable Learning Management System in Public Universities in Kenya	Enson Yegon
3.15 – 3.30	Building 21 st Century Workplace Skills: Bridging Education and Industry	Likoko <i>et.al</i> ,
3.30 – 3.45	The Impact of Emerging Oppressive Social Conditions on Women in The 21 st Century in Tsitsi Dangarembga's Trilogy	Achieng <i>et.al</i> ,
3.45 – 4.00	Gender Representation in Luhya Popular Songs: A Case of Jacob Luseno	Christopher M. Wechuli
4.00 – 4.15	Beyond Academic Guidance: Exploring the Multifaceted Nature of Supervisor Support in Doctoral Education	Patrick Owoche
4.15 – 4.30	Christianity and Multi-Party Democracy in Kenya: Church Leaders' Role in Democratic Transitions (1990-2002)	Margaret N. Matisi
Announcements and Day Break		

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<p>Breakout to Room #6 via Link Below</p> <p>https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1</p> <p>SUB-THEME #6: CROSS-CUTTING ISSUES</p>		
Time	Chair: Dr. E. Manase Rapporteur: Ms. E. Khalayi	Author(s)
	Paper Title	
2.00 – 2.15	Digital Transformation and Social Change in Kenya: Trends and Perspectives	Mark Leting & Samuel M. Simiyu
2.15 – 2.30	Effect of Utilization of Digital Delivery on Performance of Learners in Literature in Public Universities in Western Kenya	Wanyama <i>et.al</i> ,
2.30 – 2.45	Effect of Membership Growth on SACCOs Financial Performance in Western Kenya	Collins F. Wanyonyi & Fred Atandi
2.45 – 3.00	Analysis of Bandwidth Monitoring Technologies and Challenges Facing Bandwidth in Kenyan Universities	Cherotei <i>et.al</i> ,
3.00 – 3.15	Effect of Innovation Adoption on the Performance of Commercial Banks in Nairobi City County, Kenya	Samo <i>et.al</i> ,
3.15 – 3.30	Firm level characteristics Age and financial performance of non-financial firms listed on the Nairobi Securities Exchange	Eric Mabele
3.30 – 3.45	An Assessment of the Effect of Weighted Average Inventory Cost Measurement on Profitability of top 100 medium enterprises in Kenya	Judith Shibu & Fred Atandi
3.45 – 4.00	Influence of Competitive Benchmarking on Service Delivery of Commercial Banks in Kenya	Ngimoe <i>et.al</i> ,
4.00 – 4.15	Effect of Interest Rate on Financial Performance of Deposit Taking SACCOs in Bungoma County, Kenya	Rose W. Okwemba & Fred Atandi
4.15 – 4.30	Socio-Demographic Factors Associated with Diarrhoea among Children Under Five Years in Matungulu and Mavoko Sub-Counties, Kenya	Manetu1 <i>et.al</i> ,
Announcements and Day Break		

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Chair: Dr. Lucy Chikamai Rapporteur: Dr. Ruth Mitalo		
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Opening Meeting – Day 2		
Time	Activity	Facilitator(s)
8.00 – 8.10	Registration of Guests and Delegates Log-in - Prayer - Reccap	Secretariat Dr. R. Wafula
Keynote Addresses		
8.10 – 8.30	Sub-theme #2: Health and Well-being	Prof. Fabian Esamai
8.30 – 8.50	Sub-theme #6: Cross-Cutting Issues /Agriculture	Prof. Calvin Odera
8.50 – 9.10	Sub-theme #4: Education and Human Capital Development	Prof. Fredrick M. Nafukho
Plenary		

BREAK-OUT / PARALLEL SESSIONS

https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME# 1: AGRICULTURE AND FOOD SECURITY		
Time	Chair: Prof. J. Makokha Rapporteur: Ms. G. Olwenyo	Author(s)
	Paper Title	
9.20 -9.35	Exploring the Challenges and Opportunities of Fish Farming for improved Livelihoods of local Communities in Ikolomani Sub-County, Kenya	Obino Paul
9.35-9.50	Blockchain Technology in Enhancing Food Traceability and Climate-Resilient Agricultural Value Chains	Roselida Maroko Ongare
9.50-10.05	Modelling the Interactive Effects of Cattle, Goat, Poultry and Swine manure on Macronutrient Concentrations	Magero <i>et.al</i> ,
10.05-10.20	Quality of vegetative seed in virus pest management; Case of Banana Bunchy Top Disease	Benard Mukoye
10.20-10.35	Use of Remote Sensing (MODIS) Data and Rainfall to Estimate Forage Production in Arid Rangelands	Martha Muthoni Konje
10.35-10.50	Comparative safety evaluation of palm oil from two sources using biochemical markers in wistar rats	Nwachukwu C. Francis
10.50 -11.05	The Future of AI in Black Soldier Fly (BSF) Farming	Austine Wandera & Collins Majengo
11. 05-11.20	Health Break	Author(s)
	Chair: Dr. J. Mutonyi Rapporteur: Mr. S. Waswa	
11.20-11.35	Seizing Opportunity for Multi-Agenda Integration for Siaya County's Climate-Resilient Development through Legal Reforms	David WO Oremo
11.35-11.50	The Role of Nyayo Tea Belt as a Buffer Zone in Sustainable Conservation of Kakamega Forest, Kenya	Vuyiya Esther & Martha Konje
11.50-12.05	Initiatives for Enhancing Motorcycle Taxi Drivers' Road Safety Behaviour within Bungoma South Sub-County, Bungoma County, Kenya	Janet Nabiswa & Ferdinand Nabiswa
12.05-12.15	Effect of Duty to Care on the Job Performance of the National Police Service Officers in Kakamega County, Kenya	Khalayi Eddah & Fred Atandi
12.15 -12.35	Examining the Prevalence and Types of Alcohol and Drug Use among Kaimosi Friends University Students	Anne Asiko Okanga
12.35-12.50	Measuring the Effect of Different Modes of Mobile Phone-Based Antenatal Family Planning Counselling on the Intention for Early Postpartum Family Planning Uptake in Western Kenya: A Pragmatic Factorial Randomized Control Trial	Shisanya <i>et.al</i> ,
12.50-1.05	Occupational Health and Safety and Employee Performance in Sugar Manufacturing Industries in Western Kenya	Sylvia B. Simiyu & Fred Atandi
1.05-1.20	Harnessing storytelling and community radio for transformative learning for grassroots development in Kenya	Ziz <i>et.al</i> ,
1.20 - 2.00	Lunch Break	

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<p style="text-align: center;">Breakout to Room #2 via Link Below</p> <p style="text-align: center;">https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1</p> <p style="text-align: center;">SUB-THEME #2: HEALTH AND WELL-BEING</p>		
Time	Chair: Dr. R. Wepukhulu Rapporteur: Ms. S. Wanjala	Author(s)
	Paper Title	
9.20 -9.35	The Role of Online Comedy in Tackling Issues related to Mental Health among Kenyans	Angushi <i>et.al</i> ,
9.35 -9.50	Factors Affecting Emergency Response Time in Hospital Facilities in Kisumu County	Kubasu <i>et.al</i> ,
9.50 - 10.05	Effectiveness of Peer Support on Foot Self-Care Practices for Prevention of Foot Complications among Diabetic Patients in Western Kenya	Lucy Kageha Kavinguha
10.05 -10.20	The Role AI on Climate Change and Mental Health among College Students' Performance	Michael Omwenga & Fredrick Kayusi
10.20 - 10.35	Determinants of Adverse Outcomes of Low-Birth-Weight Neonates Admitted to the Newborn Unit at Kericho County Referral Hospital	Judy Cheptoo, & Morris S. Senghor
10.35 - 10.50	A Community-Based Study on the Relationship Between the Three Delays Model and Perinatal Mortality in Lurambi and Butere Sub-Counties, Kakamega County, Kenya	Simiyu <i>et.al</i> ,
10.50 -11.05	Mathematical Modeling for the Effects of Early Life Stress on Brain Development and Mental Health Trajectories	Caren <i>et.al</i> ,
11.05 -11.20	Health Break	
	Chair: Prof. S. Mbugua Rapporteur: Mr. P. Mengo	Author(s)
11.20 - 11.35	Implementation of targeted postnatal care and its associated factors among midwives in selected public health facilities in Kakamega county, Kenya	Shitabule, <i>et.al</i> ,
11.35 -11.50	Exploring Digital Innovations to Address Third Delay Factors Facility-Based Perinatal Care in Selected Health Facilities in Bungoma County	Simiyu <i>et.al</i> ,
11.50 - 12.05	Solving The Long-Term Mental Health in the Digital Workplace	Muruga <i>et.al</i> ,
12.05-12.15	Leveraging Artificial Intelligence in Mathematical Modelling of Malaria Vaccine Impact	Opicho Dominic Simiyu
12.15 -12.35	Integration of Information Technology and Machine Learning for Pandemic Surveillance and Resource Maximization	Sirengo John Luca
12.35 - 12.50	Factors Associated with Access to Cervical Cancer Screening Services in Bomachoge Chache Sub-County	Sibota Benson & Mosol Priscah
12.50 -1.05	Validating Adapted Theory of Planned Behaviour in Predicting Postpartum Family Planning Intentions in Western Kenya: Pragmatic Randomized Control Trial	Shisanya <i>et.al</i> ,
1.05-1.20	Behavioural and Environmental Determinants of Upper Respiratory Tract Infections in Mbale Community, Vihiga County	Simiyu <i>et.al</i> ,
1.20 -1.35	Knowledge and Use of ChatGPT amongst Students of Faculty of Allied Health Sciences of Bayero University, Kano	Chioma Judith
1.35 - 2.00	Lunch Break	

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<p style="text-align: center;">Breakout to Room #3 via Link Below</p> <p style="text-align: center;">https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1</p> <p style="text-align: center;">SUB-THEME #4: EDUCATION AND HUMAN CAPITAL DEVELOPMENT</p>		
Time	Chair: Dr. F. Atandi Rapporteur: Dr. I Simiyu	Author(s)
	Paper Title	
9.20 -9.35	Curriculum Development and Innovation for the 21 st Century: Legal Considerations and Challenges	Atitwa <i>et.al</i> ,
9.35 -9.50	Leveraging Research Partnerships for Sustainable Innovation and Societal Impact	Amusugut <i>et.al</i> ,
9.50 - 10.05	Justice in the Face of Language Diversity: The Interpretation Paradox	Kimani <i>et.al</i> ,
10.05 -10.20	Kenyan University Dropouts: Trends and Challenges	Wechuli Christopher & Likoko Sarah
10.20 - 10.35	The 21 st Century Pedagogies: Novel or Metempsychosis?	Joab Namai
10.35 - 10.50	Curriculum Support Officers' Professional Practices and Quality Teaching in Public Day Secondary Schools in Kakamega County, Kenya	Akolo <i>et.al</i> ,
10.50 -11.05	The Effectiveness of AI-powered Tools on Students Learning Outcomes	Khaemba Nanjala & Simon Kipkenei
11.05 -11.20	Health Break	Author(s)
	Chair: Dr. S. Kipkenei Rapporteur: Ms. J. Murabwa	
11.20 - 11.35	Bridging Education Gaps: Inclusive Education for Marginalized and Rural Communities in Kenya	Wanjala <i>et.al</i> ,
11.35 -11.50	Transforming Education Through ICT4D: An Empirical Review on Digital Tools and Innovative Learning Solutions	Paul Oyile & Alice Nambiro
11.50 - 12.05	The Impact of AI and Machine Learning Advancements on Societal Transformation and Industry Efficiency: A Systematic Review of Emerging Trends	Jeremiah Onunga
12.05-12.15	The Evolving Role of Global Information Technology Infrastructure in Addressing Borderless Challenges: A Critical Review (1900-2024)	Oyile <i>et.al</i> ,
12.15 -12.35	Active student Learning Agency as a Transformative factor in Kenyan science classrooms	Ooko <i>et.al</i> ,
12.35 - 12.50	Leveraging Artificial Intelligence (AI) in Education: A Case Study of Kibabii University	Boniface & Jane Barasa
12.50 -1.05	Effects of Communication in an Authoritarian Parenting Model on Learner Participation in Early Childhood Education Environmental Class in Kabondo Division, Homa Bay County	Onyango Daughy Akinyi
1.05-1.20	Bridging Theory and Practice in STEM Teacher Education: Evaluating the Impact of Pedagogy Training and Micro-teaching on Pre-service Science Teachers' Classroom Readiness	Rose Mutende
1.20-1.35	Enhancing Inclusive Education in Kenyan Public Primary Schools through the Integration of Special Needs Training in Teacher Professional Development	Looniyo <i>et.al</i> ,
1.35 - 2.00	Lunch Break	

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<p style="text-align: center;">Breakout to Room #4 via Link Below</p> <p style="text-align: center;">https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1</p> <p style="text-align: center;">SUB-THHEME #6: CROSS-CUTTING ISSUES</p>		
Time	Chair: Dr. R. Kati Rapporteur: Mr. MacDonald Wekesa	Author(s)
	Paper Title	
9.20 -9.35	When Vowel Hiatus Resolution Fails: The Role of Constraints in Lubukusu Phonology	Henry S. Nandelenga
9.35 -9.50	Integration of Traditional Religious Practices with Modern Conservation Approaches	Shisia <i>et.al</i> ,
9.50 - 10.05	Enumeration Properties of Weakly Increasing 2-Noncrossing Trees	Yvonne Kariuki
10.05 -10.20	Functional Analysis of the Interpersonal Metafunctions in Artificial Intelligence Generated Political Speeches	Caroline Amukasa Andayi
10.20 - 10.35	Mathematical Modelling of Antimalarial Drug Resistance and Prevention	Ashibambo <i>et.al</i> ,
10.35 - 10.50	Examining Professional Development Needs: Teachers' Competencies for 21st-Century Classrooms in Kenyan Primary Schools	Looniyo <i>et.al</i> ,
10.50 – 11.05	Perceived Brand Authenticity and Smartphone Price Premium Tolerance by Millenials and Gen-Z in Busia Town	Faraji Yatundo & Sedina Misango
11.05 -11.20	Health Break	
	Chair: Prof. M. Muganda Rapporteur: Ms. C. Wakhungu	Author(s)
11.20 - 11.35	An Assessment of the Political Environment of Trade Unions in Kenya: Is the Prevailing Environment Conducive?	Nyongesa Geodfrey & Boit Rose
11.35 -11.50	Influence of Technological Capabilities on Service Delivery of Public Water Service Providers in Kenya	Wamalwa, <i>et.al</i> ,
11.50 - 12.05	Impact of ICT Policy and Regulation on Innovation Ecosystems in Africa	Roselida Maroko Ongare
12.05-12.15	Integration of Information and Communication Technology in Schools	Elizabeth Lukuyani
12.15 -12.35	Digital Transformation and Innovation: Strategies, Challenges, and Future Trends	Dorcus Arshley Shisoka
12.35 - 12.50	Bridging the Gap between Technology and Legal Standards: The Role of Digital Forensics in Modern Justice Systems	Dorcus Arshley Shisoka
12.50 -1.05	The Gikuyu Vowel Space: An Acoustic Linguistic Perspective	Evans Konye & Henry Nandelenga
1.05-1.20	Role of Technology in Employee Procurement Practices and Enterprise Performance of Micro and Small Enterprises in Kenya	Toroitich <i>et.al</i> ,
1.20-1.35	Bridging the Gap: Exploring Community Awareness and Support for Inclusive Education in Gasabo District, Rwanda	Muhire <i>et.al</i> ,
1.35 - 2.00	Lunch Break	

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Breakout to Room #5 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #6: CROSS-CUTTING ISSUES		
Time	Chair: Dr. B. Nyongesa Rapporteur: Dr. R. Mutende	Author(s)
	Paper Title	
9.20 -9.35	A Systematic Review of Premarital Counseling Services in the Anglican and Catholic Churches of Kenya: Effectiveness and Implementation	Christine Julie Nabwire
9.35 -9.50	Investigation of Turbulent Natural Convection Heat Transfer in a Vertical Cylinder with Opposing Surface Heating and Cooling	Omariba Geofrey Ong'era
9.50 - 10.05	Investigation of Turbulent Natural Convection in a Rectangular Enclosure with Localized Heating on the Ceiling and Floor and Cooling on Opposing Vertical Walls	Omariba Geofrey Ong'era
10.05 -10.20	Numerical Investigation of Turbulent Water Flow Behavior in a Horizontal Pipe	Omariba Geofrey Ong'era
10.20 - 10.35	Enhancing Computational Efficiency Through Pattern-Based Multiplication Techniques	Omariba Geofrey Ong'era
10.35 - 10.50	Modeling Digital Credit Risk in Commercial banks with Logistic Regression Analysis and Machine Learning Algorithms	Isaiah N. Barasa
10.50 -11.05	Some Binary Linear Codes, Designs and Graphs from the Orthogonal Groups $O_8^+(2)$	Elizabeth Nanjala Masiga
11.05 -11.20	Health Break	Author(s)
	Chair: Dr. K. Nyende Rapporteur: Dr. D. Muyobo	
11.20 - 11.35	A Descriptive Correlation Study of Student's Study Habits and Performance in Chemistry Examination in Bungoma County, Kenya	Isaac Situma Macheso
11.35 -11.50	The Conjugacy Classes of the Subgroup $2^7:G_2(2)$ of the Automorphism Group Fi_{22}	Khadioli Rose Khayere
11.50 - 12.05	Determinants of Debtor Management in Kenyan Sugar Manufacturing Firms	Consolata Nasimiyu Simiyu
12.05-12.15	Control Practices and Revenue Generation in Western County Governments, Kenya	Tecla Cecilia Kirwa
12.15 -12.35	A cardiovascular disease mathematical model Incorporating personal risk factors and prevention measures	Jacinta M. Mutwiwa
12.35 - 12.50	Quantifying the Impact of IT Processes Maturity Alignment on Software as a Service Digital Transformation	Mutai <i>et.al</i> ,
12.50 -1.05	Gamification for Life Skills Education in Kenyan Junior Schools: An Emerging Pedagogical Trend	Looniyo <i>et.al</i> ,
1.05 - 2.00	Lunch Break	

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Breakout to Room #6 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #6: CROSS CUTTING ISSUES		
Time	Chair: Dr. T. Ekisa Rapporteur: Mr. M. Opole	Author(s)
	Paper Title	
9.20 -9.35	The Character Table of a Split Extension of Shape 28:U4(2) Using Fischer-Clifford matrices	Carolyn Wafula Wekesa
9.35 -9.50	Addressing Source Separation Challenges for Enhanced Resource Recovery in Waste Management	Muchiri <i>et.al</i> ,
9.50 - 10.05	A Rhetorical Structure in Vice-Chancellor's Inaugural Speeches: A New Rhetorical Approach to Genre Analysis	Ben Nyongesa Wekesa
10.05 -10.20	Role of Human Capital Management on Productivity in Health Sectors in Kenya	Consolata Khayinga & Ruth Mitalo
10.20 - 10.35	Operational Excellence and its Impacts on the Performance of Mobile Service Providers in Kenya's Telecommunication Industry	Asena <i>et.al</i> ,
10.35 - 10.50	Ecological spaces and the Bukusu Folklore	Sylvia M. Wasilwa
10.50 -11.05	Influence of Green Talent Development on Employee Job Performance in Public Hospitals in Kenya	Wekesa <i>et.al</i> ,
11.05 -11.20	Health Break	Author(s)
	Chair: Dr. L. Ouma Rapporteur: Ms. F. Aseyo	
11.20 - 11.35	Integration of Information and Communication Technology in Agriculture Curriculum Implementation in Secondary Schools in Kimilili Sub County, Kenya	Kimani <i>et.al</i> ,
11.35 -11.50	The Influence of Tuition Grants on Financial Prudence of Secondary Schools in Busia County, Kenya.	Consolata Oyinda & Tecla Kirwa
11.50 - 12.05	Shifting Cultural Construction of The Bukusu of Bungoma County, Kenya	Dennis W. Waswa
12.05-12.15	The Impact of Data-Driven Decision-Making through the Kenya Health Information System (KHIS) on Universal Health Coverage (UHC) Implementation in Kenya	Emmanuel Waleo Bwemba
12.15 -12.35	Effects of Drugs and Substance Abuse as portrayed on Hip Hop songs on the internet in the Fight against Drug and Substance Abuse	Ndinyo <i>et.al</i> ,
12.35 - 12.50	What should change? The Raging Debate on the Implementation of the Mathematics Curriculum at Senior school in Kenya	Edwin Masibo
12.50 -1.05	Dhima Ya Futuhitandao Katika Kukabiliwa Na Masuala Ya Afya Ya Akili	Magambo <i>et.al</i> ,
1.05 -1.20	Historical Discourse of the "Ungoverned Space": An Afrocentric Framework for Countering Banditry along the Borderline of Northern Kenya	Precious Joan Wapukha1 & John Oluoch
1.20 - 2.00	Lunch Break	

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Breakout to Room #7 via Link Below https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1 SUB-THEME #5: GOVERNANCE AND POLICY INNOVATION		
Time	Chair: Dr. S. Barasa Rapporteur: Dr. P. Kapukha	Author(s)
	Paper Title	
9.20 -9.35	Safeguarding Encryption in the Quantum Era: Analysis of Cryptographic Risks and Policy Responses	John Kariuki & Wilfred Odoyo
9.35 -9.50	Harnessing Innovation for Sustainable Growth through ICT and Digital Transformation	Agwenyi Christopher
9.50 - 10.05	Integrated National Digital Identity System: Transforming Governance and Public Service Delivery through a Lifetime Citizen Database	Alex Kimotho Kanyi
10.05 -10.20	Budgetary Controls Practices and Financial Performance of Salt Manufacturing Firms in Kilifi County, Kenya	Cosmus K. Katana, & Rashid Fwamba
10.20 - 10.35	Examining the effect of Policy Evaluation Practices on Performance of Public Institutions in South Sudan	Kur <i>et.al</i> ,
10.35 - 10.50	Effect of Innovation Adoption on the Performance of Commercial Banks in Nairobi City County, Kenya	Samo <i>et.al</i> ,
10.50 -11.05	Ethical Dilemmas in the Digital Age: Privacy, Freedom of Speech, and Censorship Among Gen Z in Kenya	Agwenyi C.A. & Mbugua S.M
11.05 -11.20	Health Break	Author(s)
	Chair: Dr. S. Likoko Rapporteur: Mr. K. Munyole	
11.20 - 11.35	E-Governance and Digital Public Service: Transforming the State-Citizen interface in the 21st Century	Andrew M. Musungu
11.35 -11.50	Influence of Collaborative Partnerships and Financial Performance of Commercial banks in Juba, South Sudan	Magok <i>et.al</i> ,
11.50 - 12.05	Resources Allocation and Teachers' Professional Development in Kenya	Wechuli Christopher & Julius Maiyo
12.05-12.15	Validation of a Predictive Model for HIV Pre-Exposure Prophylaxis (PrEP) Uptake Among Youths in Turbo Sub-County, Kenya: A Study Protocol	Morris Senghor & Elizabeth Kileku
12.15 -12.35	Acceptability of Digital Mental Health Interventions for Depression and Anxiety: A Systematic Review	Wamalwa <i>et.al</i> ,
12.35 - 12.50	Assessment of Bacterial Contamination on Used Handkerchiefs Among 5–6 Year-Old School Children in Bungoma County, Kenya	Khasabuli <i>et.al</i> ,
12.50 -1.05	Outcomes of Kangaroo Mother Care and Associated Factors Among Mothers with Low-Birth-Weight Babies in Western Kenya	Mukabi <i>et.al</i> ,
1.05-1.20	Policy Frameworks for Sustainable Urban and Rural Development and Analytical Framework for Kenyan Scenario	Otte Zebedee Ekwenye
1.20-1.35	An Evaluation of School Practice and Mentorship in Higher Education Institutions	Julius K. Maiyo
1.20 - 2.00	Lunch Break	

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-END OF TECHNICAL SESSIONS-

CLOSING MEETING

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Time	Link to Virtual Meeting Room #1 https://zoom.us/j/95691064710?pwd=kzaHm2Pf4sdC7EnBY4ivR1TVtJ9E8d.1	Facilitator
Chair: Dr. P. Obino Rapporteur: Mr. S. Wakahia		
2.30	Guests and Delegates Log-in for Closing Meeting - Entertainment	Session MC: Dr. B. Singoro Dr. M. Wakoko
2.30 – 3.30	Closing Remarks	
	- DVC (PPRI) - Vice Chancellor's Closing Remarks - Vote of Thanks	- Prof. Julius Maiyo - Prof. Isaac I. Odeo - Prof. Jushua Abuya
3.30 – 3.40	- National Anthem - Prayer	- Dr. Janet Nabiswa - Rev. Fr. Dr. Leonard Juma
3.50	- Announcements & Closure	





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