

Curriculum Vitae

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Ph.D. (UoN), M.Sc. (UoN), PGDE (KU), B.Sc. (KU)

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Bio Data

Date of Birth: 12th/10/1978
Marital Status: Married with children
Languages: English, Kiswahili & Kikamba

Career Objective

To be a leading carrier educationist in Kenya and beyond, who can be able to appropriately embrace new technological innovations and tirelessly work in line with the Government's policies towards ensuring that Kenya gets industrialized as the Vision 2030

Key Competencies

- Curriculum design, development, implementation and review of curricula at University level - Developed and reviewed various course units for B.Ed. (Arts), B.Ed. (ICT), B.Ed. (Science), B.Ed. (ECE), M.Ed. (Educational Technology) and Ph.D. programmes of the Faculty of Education, University of Nairobi
- Competency-Based Curriculum (CBC) scoping, sequencing, design and editing of Computer Science/ICT for Junior School, Senior School, Diploma on Secondary Teacher Education (DSTE) Diploma in Primary Teacher Education (DPTE) at KICD
- Development of learning assessment/test tools at School, Colleges and Universities and national levels
- Integration of ICT in Education and digital learning systems at Primary, Secondary, College, University & National Levels
- Teaching and training in Computer Science, IT, ICT, instructional methods and Educational Technology courses at secondary school, college & University levels
- Research problem formulation, proposal writing, data collection, analysis and report writing
- Trained mentor and Staff Peer-Counselor at university level
- Chairing of committees & coordinating activities/events at community, School Boards & University levels
- ICT management and Technical support at Secondary school, College and University level
- Information Systems analysis, design, development and support
- Strong command in web design & development using HTML, PHP and CMSs
- Computer programming (C, C++, C#, JAVA, Python, etc.)
- Computer Network design, installation and implementation
- Advanced skills in database design & development, Desktop Publishing, Graphic design, Word Processing, Spreadsheets, Presentation software among other automation tools
- Conducting Webinars and Online classes using Google Meet, Zoom, WebEx, Skype, etc.
- Project planning, management and scheduling using project management information systems (PMIS)

Education Background	
<u>Date</u>	<u>University/College/School & Certificate/Grade</u>
2017 – 2022	University of Nairobi, Doctor of Philosophy (Ph.D.) in Education (Educational Technology)
2008 – 2011	University of Nairobi, Master of Science in Information Systems
2005 – 2007	Kenyatta University, Post-Graduate Diploma in Education (PGDE) – Distinction
1999 – 2003	Kenyatta University, Bachelor of Science, 2 nd Class Honours (Upper Division)
April 2000 – Sept 2000	Branier Computer College, Diploma in Information Technology
April 1998 – July 1999	Kenya Christian Industrial Training Institute (KCITI), Certificate in Computer Applications and Internet Technology
1994 – 1997	Matinyani Secondary School, Kenya Certificate of Secondary Education – B (Plain)
1990 – 1993	Ngiluni Primary School - Kitui, Kenya Certificate of Primary Education – B (Plus)
1985 – 1989	Kamuti Primary School – Kitui

Recent Awards & Recognition	
<u>Date</u>	<u>Award/Recognition</u>
10 th February, 2025	Vice Chancellor's Excellence Award for Exemplary Performance in the FY 2023/2024 Staff Performance Appraisal, University of Nairobi

Professional and Capacity Building Trainings Received	
14th – 16th Jan, 2025	CARTA PHD Supervision Training of Doctoral Students
26th– 28th Feb, 2024	Trained on Hackathon for faculties trainer of trainers (ToTs), University of Nairobi
15th Feb, 2024	Trained on research process for early career researchers, University of Nairobi
October 25–27, 2023	Trained as a facilitator on Faculty Enrichment Program - Part 2 (Face to face) at the Witwatersrand University in South Africa organized by Carnegie Mellon University Africa and the University of the Witwatersrand sponsored by the AFRETEC Network
October 9–12, 2023	Trained as a facilitator on Faculty Enrichment Program - Part 1 (Online) organized by Carnegie Mellon University Africa and the University of the Witwatersrand sponsored by the AFRETEC Network

25th – 27th Sept, 2023	Trained on Intellectual Property (IP) Audit and Commercialization for Faculty IIP Coordinators
5th - 9th June 2023	Attended training on Development/Enhancement of UON Courses as Open Education Resources (OER) in workshop Sponsored by Commonwealth of Learning (COL) at the University of Nairobi
17th November, 2022	Trained on Policy Brief Writing Organized by the RIE Office, UoN. Facilitators: Prof. Raphael Nyonje and Dr. Parita Shah.
16th – 20th December 2019	Trained as a Curriculum Designer and Panelist of Computer Science Subject for Senior Secondary School (Grade 10 – 12) on Competence Based Curriculum (CBC) at Kenya Institute of Curriculum Development
15th - 16th May 2018	Trained on Rapid Outcome Innovation (ROIn) in ToTs Workshop Organised by University of Nairobi, at CBPS
7th Feb 2018	Trained on Becoming an Innovation Champion (BIC) in a workshop on Innovation for the Deans/Directors/Champions Organised by University of Nairobi, at CBPS
Nov 2010	Trained on Quality Management Systems in a workshop organized by the KSC management for middle level managers in charge of implementing the ISO 9001:2008 standard in the college
April 2005	Trained on SMASSE In-service Training cycles 1 and 2 at Mulango Girls High School, Kitui District

Published Journal Articles After the Last Promotion	
1.	Mulwa, P. K. (2025). Heterogeneity in Digital Learning Resource Integration: A Multilevel Analysis of Teacher Intern Practices in Secondary Schools Across Homa Bay County, Kenya. <i>American Journal of Education and Information Technology</i> , 9 (1), 49-56.
2.	Jepkemoi, B. and Mulwa , P. (2024). Influence of ChatGPT Facilitated Personalized Learning on Adaptive Learning Experiences Among Undergraduate Teacher Trainees at the University of Nairobi, Kenya. <i>Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice</i> 5 (3), 1-7.
3.	Migwambo, A. Mulwa, P. and Inyega, J. (2024). Influence of Teachers' Digital Content Evaluation Skills on Secondary School Learners' Engagement in English Lessons in Mwala Sub-County, Kenya. <i>Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice</i> 5 (1), 1-12.
4.	Avedi, C., Mulwa , P. and Muriithi. E. (2024). Relationship Between Learner Perception Towards Integrating YouTube Videos in History and Government Lessons and Academic Performance in Public Secondary Schools, Vihiga Sub-County, Kenya. <i>Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice</i> 5 (2), 91-101.
5.	Jepkemoi, B., Mulwa , P. & Mwanda, S. (2024). Influence of ChatGPT Affordances on Adaptive Learning Experiences among Undergraduate Religious Education Teacher Trainees at the University of Nairobi, Kenya. <i>Canadian Journal of Educational and Social Studies</i> 4 (1), 25-35
6.	Mulwa , P. & Origa, J. (2024). The Relationship between Learner Attitude towards the Use of Facebook Social Networking Platform and Academic Achievement in Computer Programming in Public Secondary Schools, Nairobi County, Kenya. <i>Canadian Journal of Educational and Social Studies</i> 4 (1), 36-48.

7. Avedi, C., Muriithi, E. & Mulwa, P. (2023). Effect of Integrating YouTube Videos in Teaching History and Government on Learner Academic Performance in Public Secondary Schools, Vihiga Sub-County, Kenya. <i>International Journal of Education and Research</i> 11 (11), 13-24
8. Kamanda, M., Origa, J., & Mulwa, P. (2023). Adopting Activity Based Learning in Kenya: Emphasis on Achievement in Secondary School Mathematics. <i>Canadian Journal of Educational and Social Studies</i> , 3(4), 1–11. https://doi.org/10.53103/cjess.v3i4.143
9. Muasya, J. and Mulwa, P. (2023). Pilot Study, a Neglected Part of Qualitative and Quantitative Research Process: Evidence from Selected PhD Thesis and Dissertations. <i>Higher Education Research, Vol 8, Issue 4, pg. 115 – 123.</i>
10. Mulwa, P. K. , Mwanda, S. O, Gatumu, J. C. &, Muriithi, E. M. (2022). Effect of Learner Collaboration on Facebook Social Networking Platform on Academic Achievement in Computer Studies in Public Secondary Schools, Nairobi City County, Kenya. <i>Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice (JPAHAP)</i> . 2022; 3(1):77-97.
11. Mulwa, P. K. , Muriithi, E. M, Mwanda, S. M. & Gatumu, J. M. (2022). Effect of Time Spent on Facebook Social Networking Platform on Learner Academic Achievement in Computer Studies in Public Secondary Schools, Nairobi County, Kenya. <i>American Journal of Creative Education</i> . 2022; 5(2):20-30.
12. Asewe, G., Origa, J. & Mulwa, P. K. (2020). Feedback Provision and Learner Achievement in Mathematics in Secondary Schools in Nairobi County, Kenya. <i>International Journal of Secondary Education</i> . Vol. 8, No. 4, 2020, pp. 110-114. doi: 10.11648/j.ijssedu.20200804.11
13. Koskey, S. J., Inyega, H. N. & Mulwa, P. K. (2018). Influence of County Government functions on implementation of ECDE curriculum in Eldora West Sub-County, Uasin-Gishu County, Kenya. <i>American Journal of Educational Research and Reviews</i> . ISSN: 2474-9265.

Published Journal Articles Before the Last Promotion

1. Mulwa, P. K. & Muriithi, E. M. (2018). Influence of Facebook as a Pedagogical Interaction Tool on Learning Outcome among Learners in Secondary Schools in Kenya. International Journal of Education and Research. Vol. 6 No. 4. pp19-20. ISSN: 2411-5681
2. Muriithi, E. M. & Mulwa, P. K. (2018). Influence of Teacher Characteristics in Use of Project Method in Teaching Physics in Kenyan Secondary Schools. International Journal of Innovative Research & Development. Vole 7. Issue 3. pp.129-134. ISSN 2278 - 0211 (Online).
3. Mutiso, S. K. & Mulwa, P. K. (2018). Agriculture Teachers' Perspectives on Incorporation of Beneficial Opportunities from Climate Change Topic and The Teaching Methodologies in Secondary School Agriculture in Kenya. International Journal of Education and Research. Vol. 6 No. 7. pp25-36. ISSN: 2411-5681
4. Mutiso, S. K. & Mulwa, P. K. (2018). Influence of the Grade Achieved in Agriculture at Kenya Certificate of Secondary Education Examination on Performance in Farming in Kenya. International Journal of Education and Research. Vole 7. Issue 7. pp412-422. ISSN 2278 - 0211 (Online).
5. Mulwa, P. K. (2018). Review of E-Government Models Used in Kenya: Case Study of the University of Nairobi, Kenya. International Journal of Innovative Research & Development. Vole 7. Issue 7. pp428-434. ISSN 2278 - 0211 (Online).

6. **Mulwa, P. K.** (2018). Enhancing Web-Based E-Government Models through Integrated Email-SMS Alert System: A Prototype Design, Development & Testing. **The International Journal of Science & Technology. Vole 6. Issue 7. Pp214-222. ISSN 2321 – 919X.**
7. **Mulwa, P. K. & Mutiso, S. K.** (2018). Use of Online Social Networking Platforms to Support Flipped Learning in Public Universities in Kenya: A Students' Perspective. **The International Journal of Humanities & Social Studies. ISSN 2321 – 9203.**

Journal Editing and Peer Review

July 2024 to Now: Advisory and Peer Reviewer: The Rwandan Journal of Education (RJE), a member of African Journals Online (AJOL), <https://www.ajol.info/index.php/rie>

Research and Development Funds Attracted	
<u>Date</u>	<u>Consultancy/Research/Grant</u>
April – May, 2024	As the Faculty IIP Coordinators, together with Prof. Naomi Mwangi, attracted Ksh. 500,000/= for Supporting the Nairobi Innovation Week (8 – 10 th May, 2024) from the Nendeni Booth Schools who served as a collaborator and sponsor for the Faculty of Education NIW – 2024 Activities
May – June, 2023	Participated in the Supporting Holistic & Actionable Research in Education (SHARE) - Language of Instruction Transition in Education Systems (LITES) Research Grant project whose PI is Prof. Hellen N. Inyega. The total amount of the grant is Ksh. 69, 000,000 (USD 690,000)
2018 - 2021	Coordinated recruitment, admission, orientation and teaching of Module II B.Ed. (ECE) students who raised fees of not less than Ksh. 30,000,000/=

Postgraduate Students Supervision

No.	Student Reg. No. & Name	Course	Topic	Status
1.	Betty Jepkemoi E55/40258/2021	M.Ed. (Edu. Tech)	Influence of ChatGPT Affordances on Adaptive Learning Experiences Among Undergraduate Religious Education Teacher Trainees at The University of Nairobi, Kenya	Graduated in 2023
2.	Catherine K. Avedi E55/40258/2021	M.Ed. (Edu. Tech)	Effect of Integrating YouTube Videos in Teaching History and Government on Learner Academic Performance in Public Secondary Schools, Vihiga Sub-County, Kenya	Graduated in 2023
3.	Kelvin G. Misoga E60/37410/2020	M.Ed. (Edu. Tech)	Influence of Strengthening Mathematics and Sciences in Secondary Education In-Service	Graduated in 2023

			Training on students' academic achievement in physics in Merti Sub-county, Kenya	
4.	Rebecca A. Migwambo E60/38635/2020	M.Ed. (Edu. Tech)	Effect of Digital Content Evaluation Skills on Instructional Efficacy Among Teachers of English In Secondary Schools in Mwala Sub-County, Kenya	Graduated in Sep. 2024
5.	Kaumbuthi P. Muia E60/33129/2019	M.Ed. (Edu. Tech)	Influence of Integrating Computer Mediated Instruction on Learners Performance in Business Studies in Secondary Schools in Isinya Sub-County, Kajiado County, Kenya	Graduated in Sep. 2024
6.	Rosalene Kathuri E55/43780/2023	M.Ed. (Edu. Tech)	Effect of ChatGPT on Writing Skills Among Undergraduate English Students in The University of Nairobi, Kenya	On Progress
7.	Mr. Kepha Marube	Ph.D. (Mathematics Education)	An Investigation of The Relationship Between Cognitive Strategies and Problem-Solving in Mathematics	On Progress
8.	Ms Ruth Muteshi	Ph.D. (Edu. Tech.)	Effect of documented traditional Visual Art technologies on the performance of students in Art and design in Kenya secondary schools	On Progress

Professional Membership

Member of the Education Management Society of Kenya (EMSK)

Community Engagement and Leadership

2022 - now	Chairman, Board of Management (BoM), Katulani Boys' Secondary School in Katulani Sub-count, Kitui County
2019 - Now	Member - Board of Management (BoM), Kaluki Ngilu Girls' Secondary School in Katulani Sub-count, Kitui County
2017 - Now	Associate Member of Kenya Anglican Men Association (ACK St. Marks, Westlands, Nairobi)
2016 - Now	Chairman & Coordinator of Ndetani Annual Youth Mentorship Programme. Key facilitators invited include Prof. L. Ngesu (SoE – UoN) and Dr. E. Muriithi (SoE – UoN)
2012 - Now	Academic advisor, Ndetani Primary School, Katulani Sub-county, Kitui County
2015/2016 F/Y	Chairman, Finance Committee at ACK St Peters Satellite Parish
2015 – Now	Development Committee Member, ACK St James Ndetani Parish - Kitui
2014/2015 F/Y	Chairman, Church Development Committee at ACK St Peters Satellite Parish

Professional Engagement /Consultancy Services	
Date	Professional Engagement/Consultancy
2024 - Now	Through the Booth Foundation and University of Nairobi, Faculty of Education, I am involved in the Innovations in Basic Education Institutions Training programme that trains high school teachers and students on Innovations, Design Thinking and Hackathons
14 th July 2024 - Now	Consulted as an expert in Pedagogy for the ENGAGE (ENabling Girls in AI and Growing Expertise in Data Science) Project where I trained Master Trainers and ToTs on enhancing pedagogical skills, micro-teaching skills and learner focused content delivery methodologies to ensure effective, engaging and conducive learning during the project implementation. https://engage.uonbi.ac.ke/ready-to-train-young-women-in-data-science-machine-learning-and-artificial-intelligence-for-public-health/
19 th - 25 th May 2024	Participated in Writing an Evaluation Report on the Implementation of The Competency-Based Assessment (CBA) which Is the Assessment Program for the CBC
August, 2023	Kenya Institute of Curriculum Design (KICD) – Curation of Digital Supplementary Curriculum Support Materials
3 rd – 12 th July 2022	Kenya Institute of Curriculum Design (KICD) – Editing the Diploma in Secondary Teacher Education (DSTE) Curriculum Designs - Computer Science
16 th – 26 th June 2022	Kenya Institute of Curriculum Design (KICD) – Developing Diploma in Secondary Teacher Education (DSTE) Curriculum Designs - Computer Science
23 rd May 2022 – 1 st June 2022	Kenya Institute of Curriculum Design (KICD) – Developing Senior Secondary School (Grade 10) Curriculum Design for Competency Based Curriculum (CBC) - Computer Science
6 th – 12 th March 2022	Kenya Institute of Curriculum Design (KICD) - Scoping and Sequencing the Senior Secondary Education Curriculum CBC Design for ICT Subject
10 th – 21 st Feb 2020	Kenya Institute of Curriculum Design (KICD) - Design and Sequencing Computer Science Curriculum Design for Senior Secondary School (Grade 10 – 12) on Competence Based Curriculum (CBC)
November 2019	Kenya Institute of Curriculum Design (KICD) - Curriculum design for Pedagogy for Diploma in Early Childhood Teacher Education
November 2015	Consultant Facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on Managing seed plan spreadsheet using Microsoft excel 2010 - 2015, http://erepository.uonbi.ac.ke/handle/11295/94269
August 2015	Consultant Facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on ICT Applications in Seed Business Management Data Analysis Using MS Excel Tool, http://erepository.uonbi.ac.ke/handle/11295/94252
July 2015	Consultant Facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on Use of Electronic

	Spreadsheets for Marketing & Vital Sales Tracking Tools - Pivot Tables, http://erepository.uonbi.ac.ke/handle/11295/94282
April 2011	Consultant Facilitator in training on ICT Integration in Education at SMASSE Inset training Workshop for Kibwezi/Makindu districts held at St. Joseph's Secondary School
2008 – 2010	Consultant and a Lead Trainer for Secondary School Managers on Integration of ICT in Education at different workshops organized by KESI in various centres which included Embu, Kisumu, Mombasa and KESI headquarters at different dates
February 2008	Consultant member in a panel comprising of ICT tutors from KSC and KTTC which developed the ICT Integration in Education Curriculum for the Kenya Education Staff Institute (KESI) now Kenya Education Management Institute (KEMI)

Curricula Participated in Design or Review	
2015 - 2024	<ol style="list-style-type: none"> 1. Developed a new proposed common undergraduate Unit titled “ICT and Education” for all B.Ed. undergraduate students and aligned it to CBC 2. Aligned the following existing units as per the ongoing Universities curriculum alignment to CBC: EEC 3108 – ICT for Early Years Education, TEC 331: Instructional Resource Development, TCT 335: Subject Methods – Computer Science, TEC 413: Technology and Early Years Education, etc. 3. In various occasions, I participated in the departmental review of all units I teach as organized by the Chairman in my department
2021 - 2022	In varied dates, I participated in different KICD panels that designed, scoped, sequenced and edited the Curriculum Designs for Diploma in Secondary Teacher Education (DSTE) - Computer Science
2020 – 2022	In varied dates, I participated in different KICD panels that designed, Scoped, Sequenced and edited the Computer Science Curriculum Designs for Senior Secondary School (Grade 10 – 12) on Competence Based Curriculum (CBC)
2020 - 2021	In varied dates, I participated in different KICD panels that designed, scoped, sequenced and edited the Curriculum design for ICT Integration in Education for Diploma in Primary Teacher Education (DPTE)
2019 - 2020	In varied dates, I participated in different KICD panels that designed, Scoped, Sequenced and edited the Curriculum design for Pedagogy for Diploma in Early Childhood Education Teacher Education (DECETE)
2008	Participated in the panel comprising of ICT tutors from KSC - UoN and Kenya Technical Teachers' College (KTTC) which developed the ICT Integration in Education Curriculum implemented by Kenya Education Management Institute (KEMI) then known as KESI

University Policies Involved in Drafting, Reviewing or Validating	
5th August, 2024	Participated in the Peer to Peer Review of the Entrepreneurial Institutional Maturity Framework (EIMF) Developed and Implemented by Kenya National Innovation Agency (KENIA) in a Meeting Held at the University of Nairobi with Rongo University Staff as Peer Reviewers
17TH - 21st APRIL, 2023	Participated in drafting the University of Nairobi Policy on Open and Distance Learning Sponsored by Commonwealth of Learning (COL) at the University of Nairobi
25th March, 2024	Participated in University of Nairobi Entrepreneurial and Commercialization Masterplan Stakeholders validation workshop held at UoN Towers

Conferences/Seminars/Workshops Attended, Presented Papers or Facilitated	
<u>Date</u>	<u>Seminar/Workshop/Conference/Webinars</u>
Weekly since 2022 to Now	Weekly seminars in my department (DECTPS – UoN) where students and staff present papers and share research experiences where I have presented several papers.
11th – 13th and 15th – 19th July, 2024	Facilitated the ENGAGE Project Master Trainers and ToTs on Enhancing Pedagogical Skills, Micro-Teaching Skills And Learner Focused Content Delivery Methodologies https://engage.uonbi.ac.ke/ready-to-train-young-women-in-data-science-mchine-learning-and-artificial-intelligence-for-public-health/
26th April, 2024	Coordinated and Presented a Paper in the 1st Teaching Practice Symposium of the University of Nairobi . Paper presented: “Feedback on Teaching Practice (TP) Experiences from the 2022/2023 UoN Teacher Trainees”
18th Jan, 2024	Trained Academic Staff in the Department of Educational Communication, Technology and Pedagogical Studies on “ Digital Transformation Programme: Teaching with Technology ”
23rd Nov, 2023	Attended Webinar on “ AI-Powered Higher Education: Transforming Teaching and Learning ”, Webinar Organized by Centre for Higher Education Research (CHER) and Department of Computing and Information Systems, Sunway University
8th November, 2022	Webinar: Faculty of education webinar to response to presidential working party’s call on education reforms in Kenya Papers Presented: i) A framework for physical and e-infrastructure development and coordination of public-private partnership for improved access and quality provision of education ii) Continuity in TVET and university education transition
26th -27th October, 2022	Conference: The 4th Annual International Conference on Research and Innovation in Education (AICRIE) – Online Paper presented: Effect of Facebook Social Networking Platform Learner-Interface Interactions on Academic Achievement in Computer

	Programming Among Learners in Public Secondary Schools, Nairobi City County, Kenya
21st September 2022	The Philippines Success Story: Best Practices for Virtual Labs to Improve Students Learning Outcomes and Grades. Webinar Organized PraxiLabs Virtual Labs. https://praxilabs.com/
21st September 2022	Cloud Essentials for Higher Education Workforce Training Programme. Webinar Organized by the International Centre for Higher Education Innovation Under the Auspices of UNESCO (UNESCO – ICHEI). Facilitators: Prof. Kai Huang and Prof. Alex Peng both of the Sun Yat-sen University, China.
3rd – 12th July 2022	Kenya Institute of Curriculum Design (KICD) – Workshop for Editing the Diploma in Secondary Teacher Education (DSTE) Curriculum Designs - Computer Science
16th – 26th June 2022	Kenya Institute of Curriculum Design (KICD) – Workshop for Developing Diploma in Secondary Teacher Education (DSTE) Curriculum Designs - Computer Science
23rd May 2022 – 1st June 2022	Kenya Institute of Curriculum Design (KICD) – Workshop for Developing Senior Secondary School (Grade 10) Curriculum Design for Competency Based Curriculum (CBC) - Computer Science
17th March 2022	Webinar on Learners Response to Learner Toolkit During the Period of Covid-19 Pandemic Organized by The Department of Educational Communication, Technology and Pedagogical Studies, Faculty of Education, University of Nairobi. Guest Speakers: Mr. Enos Kiforo and Ms. Rose Iminza of LTK+ African Research Hub. I Moderated the Webinar.
14th March 2022	UNESCO International Webinar Topic: Strengthening System Capacities for Ministry of Education Leadership in Crisis Settings. Some Guest Speakers: Prof. Karen Mundy (Director of the UNESCO Institute of Educational Planning), Dr. Loise Gichuhi (Sr. Lecturer and Founder of Education in Emergencies, University of Nairobi), Prof. Leon P. Tikly (UNESCO Chair in Inclusive, Good Quality Education and Global Chair in Education at the University of Bristol)
6th – 12th March 2022	Senior Secondary Education Curriculum Design (Scoping and Sequencing) for ICT Subject, organized by Kenya Institute of Curriculum Development and Held at the Lake Naivasha Resort
11th March, 2022	Seminar Organized by the Department of Educational Communication, Technology and Pedagogical Studies. I presented a paper on: ICT integration in the Classroom: Case of Online Microteaching
21st April, 2021	International Webinar Topic: Covid 19 and Homeschooling: An International Perspective. Guest Speaker: Prof. P-o Hansson, Linköping University, Sweden.
14th April, 2021	Webinar Topic: Will Virtual Lab Simulations Replace Hands-On Real Labs? Discussants: Dr. Stephanie Duguez, Lecturer in in Stratified Medicine, School of Biomedical Sciences Ulster University, UK and Dr. Khadija Elbedwihy, Prexilabs Founder and CEO.
4th March, 2021	Webinar Topic: Improving Literacy and Numeracy using the Learning Toolkit Software. Discussants: Prof. J. Gatumu, Chairman Department

	of Educational Communication and Technology, University of Nairobi; Ms. Rose Imiza, LTK+, African PD Coordinator and Mr. Enos Kiforo, LTK+, African Hub Research Coordinator.
7th July 2020	Webinar Topic: Pedagogy & Practice in Times of Covid-19: Strategies for Inclusive Teaching Online. Facilitator: Prof. Simon Thompson, University of Sussex, UK. Email: sjt22@sussex.ac.uk.
10th – 21st Feb 2020	Computer Science Curriculum Design and Sequencing workshop for Senior Secondary School (Grade 10 – 12) on Competence Based Curriculum (CBC) at Kenya Institute of Curriculum Development
November 2019	KICD Workshop on curriculum design for Pedagogy for Diploma in Early Childhood Teacher Education
9th November, 2018	Validation Workshop on Teacher Education Certificate in Education in Emergencies Held at CEES, Kikuyu: participated in validation of the Certificate in Education in Emergencies Curriculum
24th-26th October, 2018	First Annual International Conference on Research and Innovation in Education Held at CEES, Kikuyu. Papers Presented and due for publication 1. Mulwa, P. K. , Selina J. Koskey, S. J. and Kinyua. G. W. (2018). ICT Integration in Teaching and Learning Competencies among Teachers in Public Early Years Education Centres in Katulani Sub-County, Kitui County, Kenya. The Fountain Journal of Educational Research, University of Nairobi. ISSN: 2079 – 3383. 2. Koskey, S. J., Integer, H. N. & Mulwa, P. K. (2018). Influence of County Government functions on implementation of ECDE curriculum in Eldora West Sub-County, Uasin-Gishu County, Kenya. American Journal of Educational Research and Reviews. ISSN: 2474-9265. 3. Mwanda, S. O. & Mulwa, P. K. (2018). From Formal to Informal: Exploring Utilization of Social Media Platforms for Educational Achievements. The Fountain Journal of Educational Research, University of Nairobi. ISSN: 2079 – 3383.
27th February, 2018	Nairobi Innovation Week - organised a successful Panel Discussion which brought together the academia, KICD curriculum experts, students and education stakeholders to discuss the role of universities in the implementation of 2-6-3-3 competency-based curriculum & aligning of university academic programmes to the new curriculum
23rd -27th Nov 2015	Scientific Communication Workshop Held at Kenyatta University Nairobi Paper Presented: Literature Searches: Making the Best Use of the Internet for Sourcing Scientific Literature, Mulwa Peter Kyalo (UoN)
July 2015	Attended as a facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on Managing seed plan spreadsheet using Microsoft excel 2010 - 2015, http://erepository.uonbi.ac.ke/handle/11295/94269
August 2015	Attended as a facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on ICT Applications in

	Seed Business Management Data Analysis Using Electronic Spreadsheets Tools, http://erepository.uonbi.ac.ke/handle/11295/94252
Nov 2015	Attended as a facilitator in workshop organised by the Seed Enterprise Management Institute (SEMIS), UoN. I facilitated on Use of Electronic Spreadsheets for Marketing & Vital Sales Tracking Tools - Pivot Tables, http://erepository.uonbi.ac.ke/handle/11295/94282
June 2011	Attended Writers' Workshop organized by the Center of Open and Distance Learning (CODL), College of Education and External Studies, University of to develop e-learning materials for Educational Management Information Systems (EMIS) (TAP 503
April 2011	Facilitated training on ICT Integration in Education at SMASSE Inset training Workshop for Kibwezi/Makindu districts held at St. Joseph's Secondary School
2008 – 2010	Facilitated as a lead trainer for Secondary School Managers on Integration of ICT in Education at different workshops organized by KESI in various centres which included Embu, Kisumu, Mombasa and KESI headquarters at different dates
February 2008	Facilitated the panel comprising of ICT tutors from KSC and KTTC which developed the ICT Integration in Education Curriculum at a workshop organized by Kenya Education Staff Institute (KESI) now Kenya Education Management Institute (KEMI) headquarters in Parklands, Nairobi
May 2007	Attended as a participant in International Conference on e-learning in Africa, Safari Park Hotel, Nairobi
2006 – 2007	Facilitated various workshops organized by the college at different dates for ICT training of the former KSTC lecturers

eLearning Resources Online	
1.	Lecture notes for TEC 004, TCT 102, TCT 335, TEC 103, TEC 407, TEC 416, LPM 208, TAP 503, TCT 603, TCT 677 & TCT 685 http://profiles.uonbi.ac.ke/peterkyalo/blog
2.	Module for TAP 503: Introduction to Educational Management Information Systems, http://multimedia.uonbi.ac.ke/
3.	Presentation on Literature Searches: Making the Best Use of the Internet for Sourcing Scientific Literature, Scientific Communication Workshop Held in Nairobi on 23rd - 27th November 2015, http://profiles.uonbi.ac.ke/peterkyalo/publications
4.	Presentation on Managing seed plan spreadsheet using Microsoft excel 2010 - Seed Enterprise Management Institute (SEMIS) Workshop, UoN 2015, http://erepository.uonbi.ac.ke/handle/11295/94269/
5.	Presentation on Excel Spreadsheets for Marketing & Vital Sales Tracking Tools - Pivot Tables - Seed Enterprise Management Institute (SEMIS) Workshop, 2015, UoN, http://erepository.uonbi.ac.ke/handle/11295/94282/

6. Presentation on ICT Applications in Seed Business Management Data Analysis Using MS Excel Tools - Seed Enterprise Management Institute (SEMIS) Workshop 2015, UoN, <http://erepository.uonbi.ac.ke/handle/11295/94252/>
7. MSc Project Report: Enhancing Web-based –government Models Through Integrated Email-SMS Alert System, <http://erepository.uonbi.ac.ke/handle/11295/13185>
8. ICT staff training module on Office Automation Tools and Internet & Email, <https://multimedia.uonbi.ac.ke>

Work Experience

Teaching Experience

<u>Date</u>	<u>Position</u>	<u>Employer</u>	<u>Responsibilities</u>
Dec 2018 – Now	Lecturer	UoN - Department of Educational Communication, Technology & Pedagogical Studies, Faculty of Education	<ul style="list-style-type: none"> – Teaching & examining diploma, undergraduate and Masters Courses – B.Ed. (ICT), B.Ed. (Arts), B. Ed (Science), B. Ed (ECE) & Diploma (ECE), M.Ed. (Educational Technology) – Setting, moderation, invigilation and marking of examinations – Supervising undergraduate student projects – Supervising undergraduate students on Teaching Practice (TP) – Curriculum design and development – Units taught: TEC 004: Instructional Methods and Media in ECE, TEC 013: Guidance and Counselling in ECE, TEC 023: Research Methods; TCT 102: General Methods of Teaching; TCT 201: Instructional Media & Technology; TCT 335: Instructional Methods (Computer Science); TEC 103: Child development – 0 to 3 years; TEC 416: HIV/AIDS & Children in Kenya Context; TEC 407: Computer Literacy; TEC 331: Instructional Resources Development; TEC 313: Practicum; TEC 411: Research Project; TCT 340/TCT 341:

			<p>Teaching Practice & TCT 677: Networks for Education, TEC 413: Technology and ECE, TCT 603: Educational Management Information Systems, TCT 685: Educational Software Development, TCT 672: Electronic Media in Education, TCT 679: Online Instruction</p> <p>– Other duties assigned by Chairman</p>
July 2015 – Nov 2018	Tutorial Fellow (TF)	UoN - Department of Educational Communication & Technology	<p>– Teaching & examining Postgraduate and undergraduate students: Ph.D. (ECE), Ph.D. (Educational Communication & Technology), M.Ed. (Edu. Technology), M.Ed. (ECE), Postgraduate Diploma in Education (PGDE), B.Ed. (ICT), B.Ed. (Arts), B.Ed. (P.E & Sport), B.Ed. (Science), B.Ed. (ECE) and B.Sc. (Agricultural Education & Extension)</p> <p>– Setting, moderation, invigilation and marking of examinations</p> <p>– Supervising undergraduate student projects</p> <p>– Supervising and mentorship of undergraduate students on Teaching Practice (TP)</p> <p>– Curriculum design and development</p> <p>– Units taught: TEC 023: Research Methods; TCT 102: General Methods of Teaching; TCT 201: Instructional Media & Technology; TCT 335: Instructional Methods (Computer); TEC 103: Child development – 0 to 3 years; TEC 416: HIV/AIDS & Children in Kenya Context; TEC 407: Computer Literacy; TEC 313: Practicum; TEC 411: Research Project; TCT 340/TCT 341: Teaching Practice &</p>

			TCT 677: Networks for Education among others – Other duties assigned by Chairman
Oct 2011 – now:	Part-timer	UoN – Department of Educational Administration & Planning	Teaches & Examines: TAP 503, Education Management Information Systems (EMIS)
Sept 2012 – Dec 2015	Part-timer	UoN - Department of Agricultural Economics	Taught & Examined: AIC 50: Fundamentals of Programming and AIC 504: Fundamentals of Computing & Networks
May 2012 – Now	Part-timer	UoN – School of Continuing & Distance Education	Teaches and examines LPM 208: Project Management Information Systems
April 2012 – 2015	Part-timer	TUK – Department of Electrical & Electronics Engineering	Taught & examined: EEEE 372/EEEE 473 – Computer Hardware & Maintenance, EAPR 1114/EAPQ 1114 – Introduction to Information Systems
Sept 2012 – 2015:	Part-timer	SEKU - Department of Computer Science & Information Systems	Taught & Examined: DIS 102: Fundamentals of information Systems, BIT 201/CSC 212: Information Systems Analysis & Design, BIT 203: Electronic Commerce, BIT 206: Computer Networking Principles, SCI 104 - Introduction to Database Systems, BIT 101: Introduction to Computer Systems, Introduction to Computer Programming (C++), Object Oriented Programming (C# and Java)
2010 – 2012	Part-timer	MMU - Faculty of Engineering	Taught & Examined several courses for City & Guilds Advanced Diploma in Telecommunication
June 2006 – Nov 2009	Lecturer	Kenya Science Teachers College (KSTC)	Taught & Examined Computer Science/ICT courses and Computer Studies instructional Methods to teacher trainees and Diploma in IT (KNEC) & Certificate in IT (KNEC)

Feb 2004 – June 2006	Teacher	Mbitini Girls' Secondary School, Kitui	Taught Computer Studies & Physics Forms 1 to 4
July 2003 – Feb 2004	Manager/Trainer	Multimedia Business College, Nairobi	Taught & Examined Various IT courses & managed the college

Past Management and Technical Positions Held			
<u>Date</u>	<u>Position</u>	<u>Employer</u>	<u>Responsibilities</u>
July 2012 – June 2015	Chief ICT Officer	UoN – ICT Centre	Manager/Chief ICT Officer in Charge of College of Agriculture and Veterinary Sciences (CAVS) responsible for managing the College ICT unit of the college on behalf of the Director, ICT Centre
June 2010 – March 2012	Senior ICT Officer	UoN – ICT Centre	Manager/Chief ICT Officer in Charge at Kenya Science Campus responsible for managing the campus ICT unit on behalf of the Director, ICT Centre
Sept 2007 – March 2012	ICT Officer	UoN – ICT Centre	Manager/ICT Officer in Charge at Kenya science Campus responsible for managing the campus ICT unit on behalf of the Director, ICT Centre

Current and Past University of Nairobi Leadership Positions	
<u>Date</u>	<u>Position</u>
2023 - Now	<u>Departmental Level</u> Teaching Practice (TP) Coordinator, Migori/Homa Bay Zone
2019 - Now	Departmental Coordinator: Online Student Applications and Shortlisting Departmental Coordinator: B.Ed. (ECE) Outreach Programme
19 th October 2023	Chairperson of the Faculty of Education Digitization Committee
Feb/March, 2024	Faculty Returning Officer – University of Nairobi Students Association (UNSA) 2024 Elections (eVoting Sytem)
July 2023 - Now	Coordinator – Faculty of Education Innovation and Intellectual Property (IIP) Coordinator

Feb/March, 2023	Faculty Returning Officer – University of Nairobi Students Association (UNSA) 2023 Elections (eVoting Sytem)
2017 – Feb 2022	<p>CEES/Faculty of Education Representative in the University Show & Exhibitions Committee</p> <p>Key Achievements</p> <p>i) Nairobi International Trade Fair (NITF)</p> <p>a) In 2018 I organised an exhibition of a college project on empowerment of visually impaired youth through use of ICT in which the university was awarded position one (1) in the category of youth activities, empowerment and mentorship</p> <p>b) In 2017 I organised an exhibition of a college project on youth empowerment through Zumba Dance in which the university was awarded position three (3) in the category of youth activities, empowerment and mentorship</p> <p>ii) University Open Days (2017 & 2018)</p> <p>a) Exhibited college research work</p> <p>b) Marketed college academic programmes</p> <p>c) Organised successful student mentorship sessions where college lecturers mentored secondary school student attendees of academic matters</p> <p>iii) 2018 Nairobi Innovation Week (NIW):</p> <p>a) Exhibited a college innovation on integration of technology in teaching and learning of learners with visual impairment</p> <p>b) Organised a discourse that brought together University academia, KICD Curriculum Experts, students and education stakeholders who discussed the role universities in the implementation of the new curriculum and aligning of University academic programmes to the new curriculum</p>
June 2012 – June 2015	<p>Manager/Chief ICT Officer in Charge – CAVS</p> <p>Key Achievements</p> <p>i) Streamlined ICT support services in the college leading a team of seven (7) ICT officers</p> <p>ii) Managed the college websites' updates which contributed significantly in top Webometric rankings of the University of Nairobi</p> <p>iii) Trained Staff on ICT basic skills and updating personal website profiles</p> <p>iv) Managed design and installation of two modern student computer laboratories in the college</p>

	<ul style="list-style-type: none"> v) Supported the performance contracting (PC) secretariat in the college vi) Managed design of upgrading of the campus wide optic fibre backbone network and LANs. vii) Managed internal computer network extension to various office blocks viii) Trained new and continuing students on SMIS ix) Managed the uploading of lecturers' uploading of publications on the University electronic repository sites and google scholar x) Ably represented the Director (ICT) in the college management board
2011 - 2015	<p>ICT Officer in Charge of Electronic Tallying of SONU Election Results</p> <p>Key Achievements</p> <ul style="list-style-type: none"> i) Led a team ICT officer in the electronic tallying of SONU student elections ii) Transmitted SONU election results in various rooms within the campus to contain student unrest during the tallying iii) Prepared tallying report on behalf of the SONU elections Board Chairman
Sept 2007 – June 2012	<p>Manager/Senior ICT Officer in Charge – Kenya Science Campus</p> <p>Key Achievements</p> <ul style="list-style-type: none"> i) Managed ICT support services in the campus leading a team of four members of staff ii) Managed the implemented of the University Management Information Systems at the newly acquired campus iii) Managed the installation of campus backbone fibre network iv) Trained staff on UoN management information systems v) Managed the developed and updating of the campus website vi) Managed the design and implementation of campus LANs (Wired and wireless) vii) Managed design and installation of two modern student computer laboratories in the campus viii) Trained students on use of the SMIS system ix) Ably represented the Director (ICT) in the campus management committees x) Promoted from position of a Senior ICT officer to the position of Chief ICT Officer
	<ul style="list-style-type: none"> xi) Promoted from position of an ICT officer to the position of Senior ICT Officer and Manager of the Campus ICT functional unit
Current and Past University of Nairobi Committee Membership	
<u>Date</u>	<u>Committee Membership</u>
14 th August 2024	Appointment to The Committee on Appointment of University Examination Grading System

Jan – May, 2024	Faculty Representative in the committee organizing the annual Nairobi Innovation Week scheduled for 8th – 10th, May 2024. The best innovator and exhibitor in the NIW - 2024 event was Mr. Alex Musimba Kyalo (E46/5754/2020), a B.Ed. (ICT) student whom I mentored. Together with Prof. Naomi Mwangi, we organized a successful NIW side event, a Panel Discussion Topic: The National Education Reforms in Kenya: Educational Innovations Towards Conforming. The session drew facilitators and participants from various relevant state SAGAs, UoN and the general public.
Jan – April, 2024	Member of the committee that organized the 1 st Teaching Practice Symposium of the University of Nairobi that took place on 26/4/2024
Feb/April, 2024	Member of the committee that organized University of Nairobi Mega Faculty Hackathon that took place on 3rd – 5th April, 2024
March 2022	Member of a departmental committee planning exhibitions at the Nairobi Innovation Week (NIV)
Nov 2018	Member of a departmental committee spearheading the initiation of a collaboration between University of Nairobi and Africa Community Development Organization (AFRICOD) – a local NGO
June 2018	Member of College Communication, publicity & fund-raising committee in preparation for the First Annual International Conference on Research & Innovation in Education
Jan 2018	In-charge of online application, shortlisting and tracking of students' applications and SMIS registration at the departmental level
April 2017	College of Education & External Studies (CEES) representative at the University of Nairobi Show & Exhibitions Committee
Jan 2015 – June 2016	Member of a three-member committee that developed training curriculum and training manuals for training University of Nairobi staff on office automation tools, ICTC
Jan 2013 – Jun 2015	Member of the performance contract steering committee of the College of Agriculture and Veterinary Sciences (CAVS)
2008 – 2012	Member of the KSC inspection and acceptance committee
2010 - 2011	Member of technical evaluation, monitoring and implementation committee of the KSC Phase Two Network Project and Fixed Projection System in the 2010/2011 FY in the Science Complex Block
Personal Interests	
<ul style="list-style-type: none"> • Watching & playing football and volleyball • Reading Science and Technology literatures • Traveling and making friends 	

Referees		
<p>Prof. Boniface N. Ngaruiya The Chairman Department of Educational Communication, Technology & Pedagogical Studies University of Nairobi Po. Box 30197 – 00100, Nairobi. Mobile: 0721 612 929 Email: bngaruiya@uonbi.ac.ke</p>	<p>Prof. Lewis Ngesu, Professor, Faculty of Education University of Nairobi P.O Box 30197 – 00100, Nairobi. Mobile: 0722 237 718 Lewis.ngesu@uonbi.ac.ke</p>	<p>Prof. Jeremiah Kalai Professor Department of Educational, Administration, Planning & Policy University of Nairobi P.O Box 30197 – 00100, Nairobi. Mobile: 0722 595 114 Email: jeremykalai@uonbi.ac.ke</p>