

CURRICULUM VITAE

Prof. Robert Kati, PhD



Career Objective

To build a rewarding career in a progressive organization that values innovation and excellence, where I can apply my skills, embrace challenges, and contribute meaningfully to growth and success.

Guiding Principle

“Educate, Empower, and Elevate.”

Through education, I nurture knowledge and values that inspire lifelong learning; through empowerment, I build the confidence, competence, and creativity of learners and colleagues; and through elevation, I promote excellence in individuals, institutions, and communities. My work as a teacher educator, researcher, and academic leader is driven by the commitment to transform lives through meaningful education.

Personal Information

Name:	Prof. Robert Kati
Nationality:	Kenyan
Sex:	Male
Marital Status:	Married with children
Present address:	School of Graduate Studies Kibabii University P.O Box 1699-50200 Bungoma, Kenya

Mobile No: + 254 721 589 365
 Corporate e-mail: rkati@kibu.ac.ke
 Personal e-mail: omkati65@gmail.com
 Permanent address: P.O Box 140, Maragoli

Job Title and Responsibilities

Associate Professor and Dean, School of Graduate Studies, Kibabii University.
 I teach mathematics content and pedagogy as well as coordinate graduate studies at the university.

Expertise

Mathematics Education & Leadership Training.

Academic Qualifications

Institution [Date from to]	Degree(s) or Certificates(s) obtained
Jaramogi Oginga Odinga University of Science and Technology, Kenya 2012-2015	Doctor of Philosophy in Pedagogy (Mathematics)
MMUST, Kenya 2007- 2011	Master of Science in Mathematics Education
Kenyatta University, Kenya 1996-1999	Bachelor of Education Science (Second Class Honours-upper Division), (Subject combination – Chemistry/Mathematics)
Chavavo Secondary School, Kenya 1990-1993	Kenya Certificate of Secondary Education, K.C.S.E, (Mean Grade B)
Chandolo Primary School, Kenya 1982-1989	Kenya Certificate of Primary Education (KCPE)

Additional Academic Qualifications for Improved Service Delivery:

Institution [Date from to]	Diploma(s) or Certificate(s) obtained
MF Treinamentos (2023)	Certificate in Lean Six Sigma Green Belt
MF Treinamentos (2023)	Certificate in Lean Six Sigma Yellow Belt
MSBM, UK (2022)	International Postgraduate Diploma in Corporate Governance and Leadership
MF Treinamentos (2022)	Certificate in Lean Six Sigma White Belt
IBMI, Germany (March, 2022).	Certificate in Basics of Strategic Management
MSBM, UK (Jan, 2022)	Certificate in Creativity and Problem Solving Skills
IBMI, Germany (Jan, 2022)	Certificate in Leadership and Team Development

Academic Positions and Employment

Date	Position
February, 2026 to date	Associate Professor of Mathematics Education, Kibabii University
September,2021 – February, 2026	Senior Lecturer (Mathematics Education) , Kibabii University
June, 2015 - September, 2021	Lecturer (Mathematics Education) , Kibabii University
January, 2015-June, 2015	Tutorial Fellow (Mathematics Education) , Kibabii University
September,2009-January,2015	Graduate Teacher, Vihiga Friends High School, Vihiga County, Kenya
September,2001-September,2009	Graduate Teacher, Vihiga Secondary School, Vihiga County, Kenya

Administration and Management

Date	Responsibility
March, 2026	Chairperson, Kibabii University Students' Organization Electoral Commission, Kibabii University
March,2025	Member, Speeches Sub-committee for the 10 th Graduation Ceremony, Kibabii University
March, 2025	Member, Institutional Self-Assessment in preparation for CUE Institutional Quality Audit, Kibabii university
February,2025	Chairperson, Kibabii University Students' Organization Electoral Commission, Kibabii University
December, 2024- June, 2025	Member, Technical Committee for the 7 th KIBU International Conference
November, 2024	Member, Interview Panel for the IDRC PHD Scholarships Award
October, 2024 to date	Member, Quality Assurance Directorate Board, Kibabii University
October, 2024	Member, Ad Hoc Committee to Review Examinations Handbook, Kibabii University
September, 2024 to date	Member, Debts Management Committee, Kibabii University
July,2024	Member, Gowns Sub-committee for the 9 th Graduation Ceremony, Kibabii University
May, 2024 to July, 2025	Chairman, Rapid Tech Skills Program Implementation Committee, Kibabii University
March, 2024 to date	Member, University-wide CBC Committee, Kibabii University
September, 2023	Member, Publicity and Entertainment Sub-committee for the 8 th Graduation Ceremony, Kibabii University
July,2023 to date	Committee Member, Centre of STEM Education, Kibabii University.
June, 2023- September, 2023	Chairperson, Ad-Hoc Committee Preparing for the Reporting and Registration of New Students 2023/2024 Academic Year, Kibabii University

March, 2023	Member, Investigation Committee to Investigate Falsification of Students' Marks, Kibabii University
March,2023	Chairperson, Kibabii University Students' Organization Electoral Commission, Kibabii University
January, 2023	Member, Kibabii University Senate Committee to Review University Statutes,2021
October, 2022 to date	Dean, School of Graduate Studies, Kibabii University
May,2022 to October, 2022	Examination/Timetable Coordinator, Department of Curriculum and Pedagogy, Kibabii University
17 th October-28 th October,2022	Ag. Director, Planning and Organizational performance, Kibabii University
May,2022 to May, 2024	Coordinator, Training of Trainers in Teacher Education and Management(TOTEMK) Project Implementation, Kibabii University
April,2022	Member, Steering Committee Tasked with Preparation of Kibabii University Strategic Plan 2022-2027
April,2022 to October, 2022	Chairperson, KIBU School of Education welfare
October, 2021 to January,2022	Coordinator, Department of Science and Mathematics Education /Curriculum and Teaching, Kibabii University
March,2023 to May, 2025	Chairman of Technical Committee of Board of Directors Amatsi Water Services Co. Ltd.
May, 2021 to March, 2022	Chairman of Audit and Risk Committee of Board of Directors Amatsi Water and Services Co. Ltd.
May, 2021 to March, 2022	Member of Technical Committee of Board of Directors, Amatsi Water and Services Co. Ltd.
November,2020-December,2020	Acting Director, Performance Contracting & Quality Assurance, Kibabii University
2018 to date	Member of Board of Research, Consultancy and Extension, Kibabii University
2017-2019	Chairman, ad-hoc committee on Examinations Irregularities, Kibabii University
2016 -2022	Member, Committee on Evaluation and Monitoring of Kibabii University Strategic Plan
2015-2021	Chairperson, Department of Science and Mathematics Education, Kibabii University
2015 -2022	Member of Kibabii University Senate
2015 -2021	Member, Gender Mainstreaming Committee, Kibabii University
2015	Departmental Coordinator of welfare CIT/SME, Kibabii University
2015	Assistant Treasurer Universities Academic Staff Union (UASU) Kibabii University Chapter
2012-2015	Chairman, Vihiga Friends High School Inspection and Acceptance Committee

2010 -2015	Director of Boarding, Vihiga High School
2004-2007	Director of Studies, Vihiga High School
2004-2007	Coordinator of Mathematics Talks and Exhibits, Vihiga District Congress of Science and Technology

Curriculum Activities

Date	Responsibility
February, 2026	Facilitator, Trans Nzoia Sub-County East Principals' seminar on Competency-Based Education
8 th – 11 th May 2025	Facilitated training of teachers workshop on strengthening teacher professional development and mentorship at Kibabii university
November,2024	Session chairman 2024 STEM Conference, MMUST
June,2022	Member Chemistry Panel on Development of Scope and Sequence Charts for Secondary Teacher Education, Kenya Institute of Curriculum Development
March,2022	Member Chemistry Panel on Development of Scope and Sequence Charts for Grades 10,11,and 12, Kenya Institute of Curriculum Development
February,2022 to date	Member of Kibabii University, University wide Competency Based Curriculum committee.
February,2022	Member of Kibabii University Self-Assessment Committee of University Programs.
July,2020 to date	Support Programme Leader for Bachelor of Education (Science), Kibabii University
August,2019	Integrated Science Panel Member on Development of Scope and Sequence Charts for Grades 7,8, and 9, Kenya Institute of Curriculum Development
June,2019	Chairperson to the Ad-Hoc Committee for the Establishment of School of Education, Kibabii University

Community Service

Date	Responsibility
March, 2025-to date	Chairman of Board of Management, Masana High School
14 th -18 th August 2024	Main Speaker during the 79 th Session Annual General Conference of the East African Yearly Meeting of Friends Church (Quakers)
Feb,2022 to March, 2024	Chairman, BUKAVI Self Help Group, Kibabii University

25 th November, 2023	Guest Speaker during the 32 nd Graduation Ceremony at the Quaker Bible College Vihiga
May,2022 to May, 2025	Chairman, Audit Committee of the Board of Directors Amatsi Water Services Co. Ltd
January 2022 to date	Coordinator, Education Planning Committee, Deliverance Church, Kakamega
May,2021 to May, 2025	Member of Board of Directors Amatsi Water Services Co. Ltd
2019- 2022	Chairman of Board of Management, Chandolo High School
2016 to Feb, 2025	Member of Board of Management, Vihiga Friends High School
2016- 2019	Member of Board of Management, Chandolo High School
2019 - 2021	Treasurer, Education Planning Committee, Deliverance Church, Kakamega
2013(Feb/March)	Deputy Presiding Officer for the General Election in Vihiga Constituency
2011(April)	Member of Support Secretariat, National Police Service Recruitment Exercise
2010 to 2011	Vice Chairman, Vihiga High School Teachers Welfare
2003 to 2005	Secretary, Kenya Students Christian Fellowship, Vihiga Associates Team

Employment/Professional Experience and Responsibilities

Date: From to	Position	Key Responsibilities
9 th March,2026 - 13 th March, 2026	Discharging Duties of Deputy Vice Chancellor (PPRI)	All functions of the office of Deputy Vice Chancellor (PPRI)
24 th July to 31 st July 2025	Discharging Duties of Deputy Vice Chancellor (Academics and Student Affairs)	All functions of the office of Deputy Vice Chancellor (Academics and Student Affairs)
16 th April to 22 nd April 2025	Discharging Duties of Deputy Vice Chancellor (Academics and Student Affairs)	All functions of the office of Deputy Vice Chancellor (Academics and Student Affairs)

October, 2022 to date	Dean, School of Graduate Studies	<p>Coordinate the assessment and development of academic programs of the school.</p> <p>Maintain effective communication between students, faculty, administration and academic staff.</p> <p>Support the growth of post-graduate student body in line with the University Strategic goals.</p> <p>Develop policies and good practices for research supervision.</p> <p>Prepare annual budget, procurement plans and annual work plans for the office of the Dean of school.</p>
May,2022 to October, 2022	Examination/Timetable Coordinator, Department of Curriculum and Pedagogy, Kibabii University	<p>In charge of the Departmental Examinations, ensuring that Examination were Processed as per the University Rules and Regulations in consultation with the Chair of Department of Curriculum and Pedagogy.</p> <p>In charge of the Departmental Timetable, ensuring that all departmental courses are timetabled both for teaching and examination.</p> <p>Sorting out issue of Missing Marks in the Department</p>

October, 2021 to January, 2022	Coordinator, Department of Science and Mathematics Education /Curriculum and Teaching, Kibabii University	<p>Coordinating the teaching and administrative duties in the Department of Science and Mathematics Education /Curriculum, and any other duties assigned by the Dean, Faculty of Education and Social Sciences.</p> <p>Attending Senate and Faculty Management and Examination Board Meetings.</p>
September,2021 to date	Senior Lecturer at Kibabii University	<p>Teaching, Research and Supervision of Undergraduate, MSc and PhD Students</p> <p>Academic Advisor and Mentor for students in the Department</p> <p>Member- Departmental and Faculty Boards</p>
2015-2021	Chairperson, Department of Science and Mathematics Education, Kibabii University	<p>Coordinating the teaching and administrative duties in the Department of Science and Mathematics Education /Curriculum, and any other duties assigned by the Dean, Faculty of Education and Social Sciences.</p> <p>Attending Senate and Faculty Management and Examination Board Meetings.</p>
June,2015-September,2021	Lecturer (Mathematics Education) , Kibabii University	<p>Teaching and conducting research</p> <p>Performing any other duties assigned by the Head of Department</p>

January, 2015- June, 2015	Tutorial Fellow (Mathematics Education) , Kibabii University	Teaching and conducting research Performing any other duties assigned by the Head of Department
------------------------------	---	---

Capacity Building: Training, Workshops, Symposia & Seminars

Institution [Date from - Date to]	Short Course/Workshop:
November, 2025	Attended Global Leadership Summit -Kakamega Site
3 rd to 7 th February 2025, Public Service Accounting and Standards Board, Kenya	Attended a corporate governance workshop on promoting sound financial reporting and internal audit standards in the public sector, Naivasha. Kenya.
1 st October 2024 to 17 th December 2024	Participated in the Project AIED Kenya Virtual Lecture Series on Artificial Intelligence in Education
9 th to 13 th September 2024, African Institute for Capacity Development (AICAD), Kenya	Completed “ Effective Graduate Students’ Supervision Training Course ”
22 nd to 24 th May 2024 Kenya Universities Quality Assurance Network (KuQAn) At Kibabii University	Attended a Quality Assurance and Competency Based Curriculum Training
22 nd January,2024-16 th February, 2024 Commonwealth of Learning, Canada	Completed Online course on Creating an Inclusive School
8 th October,2023-11 th November, 2023 Athabasca University/COL	Completed Online course on Designing for Communities of Inquiry in Online Courses
9 th & 10 th November, 2023 Kibabii University	Undertook Occupation Safety, Health, Security and Environment Training Course
1 st May,2023-31 st May,2023 North-West University/COL	Completed Online course on Self-directed Learning for Higher Education

22 nd March,2023-26 th April,2023 Panjab University, India/COL	Completed Online course on Introduction to Social Media Marketing
15 th February,2023- 22 nd March, 2023 Indian Institute of Technology (BHV)/COL	Completed Online course on Essential Life Skills
20 th January,2023- 17 th February, 2023 Commonwealth of Learning	Completed Online course on Advanced Cybersecurity Training for Teachers
18 th November, 2022 – 16 th December, 2022 Commonwealth of Learning	Completed Online course on Cybersecurity Training for Teachers
5 th September,2022-30 th September,2022 Commonwealth of Learning	Completed Online course on Inclusive Teaching and Learning
2022(13 th June-17 th June)	Participated in a Training of Trainers Workshop on Strengthening in-service Teacher Mentor-ship and Support, Busia, Kenya
2022(9 th May-3 rd June) Commonwealth of Learning	Completed Online course on Authentic Assessment for Online Learning
2022(27 th March-24 th April)Athabasca University	Completed Online course on Leading Change in Teaching and Learning for aDigital World
November, 2021-February, 2022 University of Nairobi	Completed Training of Trainers for Teacher Education and Management in Kenya on Use ofModern Technologies to Enhance Learning
August,2021-November,2021 Stellenbosch University, South Africa	Completed Training on Doctoral Supervision at African Universities Course

July,2021 Commonwealth of Learning	Completed a Commonwealth Digital Education Leadership Training in Action (C-DELTA)
2021(May)	Attended a Workshop on Corporate Governance at Sossa Cottages, Vihiga County
2019(August)	Attended a Workshop on Development of Scope and Sequence for Grades 7, 8 and 9 for the Competency Based Curriculum , Organized by KICD
2019(April)	Attended Curriculum Review Workshop for TVET Programs , Organized by Kibabii University Management
2019(April)	Attended Digital Content Development workshop, Organized by Kibabii University Management
2018(November)	Attended Global Leadership Summit-Kakamega Chapter
2017(November)	Attended Global Leadership Summit-Kakamega Chapter
2017(March)	Attended a training workshop on Grant Proposal Writing facilitated by African Population and Health Research Center
2016(March)	Attended a training workshop on Curriculum Review for Public universities in Kenya: Implementation and Accreditation

2016(March)	Attended a training workshop on Module Writing for e-learning
2015(July)	Attended a Pedagogical Skills Training Workshop at Kibabii University, Organized by Kibabii University Management
2015(September)	Attended an Implementers' Training on Quality Management Systems Based on ISO 9001:2008
2007(May)	Attended a Career Heads Seminar , Organized by Air Travel & Related Studies Centre, Nairobi

Recognition

1. Received a letter of **Appreciation** from the Department of Physics, Koneru Lakshmaiah Education Foundation, Andhra Pradesh, India, for active participation in an International Guest Lecture on the theme “Climate Crisis: How Air Pollution is Reshaping our World” held on 16th April 2025.
2. Received a letter of **Appreciation** from the Vice Chancellor of Kibabii University for playing a key role as committee chairman during the Kibabii University registration and orientation of new students held from 19th to 30th August 2024.
3. Received a letter of **Appreciation** from the Ag. Deputy Vice Chancellor(ASA) for commitment and dedicated service to Kibabii university during the 8th graduation ceremony.
4. Awarded a certificate of **Appreciation** by the 2022/2023 academic year students' finalists leadership of Kibabii University for exemplary service rendered to the students' body.
5. Received a letter of **Appreciation** from the Vice Chancellor for financial contribution towards the Kibabii University 6th International Conference held from 14th to 15th June 2023.

6. Awarded a certificate of **Appreciation** by the Vice Chancellor of Kibabii University for outstanding contribution as a coordinator of a Postgraduate Supervision Seminar held on 5th May 2023.
7. Awarded a certificate of **Appreciation** by the Deputy Vice Chancellor (ASA) of Kibabii University for voluntarily training all education students on the Basic Education Curriculum Framework and 21st century Teacher Core Competencies.
8. Awarded a certificate of **Appreciation** for being the **returning officer** of the 6th edition of students' organization of Kibabii University.
9. Recognized and awarded by Kibabii University as the **lecturer of the year** 2021/2022.
10. Recognized by the School of Education of Kibabii University as the **lecturer of the year** 2021/2022.
11. Recognized by the Department of Curriculum and Pedagogy of Kibabii University as the **lecturer of the year** 2021/2022.
12. Awarded a certificate of **Academic Excellence** in 2022 by the Bishop of Deliverance Church Kakamega for exemplary service.
13. Awarded a certificate of **Appreciation** by the Vice Chancellor of Kibabii University for the support accorded to needy students through generous financial and material support in 2022.
14. Received letter of **Appreciation and Commendation** from the Vice Chancellor of Kibabii University for contribution towards voluntary salary cuts for COVID-19 Emergency Fund in 2020.

Membership in Professional Bodies

A member of Institute of Internal Auditors of Kenya, Member No. 2425882

A member of Kenya Universities Quality Assurance Network (KuQAn), Member No. P-180

A member of Association of Mathematics Educators in Kenya (AME-K)

A member of the Association of Distance, Open and E-Learning Practitioners' Association of Kenya, Member No. 164/2026

A member of the Association of Distance, Open and E-Learning Practitioners' Association of East Africa, Member No. EA 164/2026

Grants/Scholarships

June, 2024: Won 4 Million Norwegian Kroner Erasmus + Global Mobility grant jointly with a team from Kibabii University, NLA University College and Moi university.

June, 2024: Won KES 45,346,360 Mathematics Instructional Practice Improvement Project (MIPIP-Kenya) with a team from Kibabii University and Masinde Muliro University of Science and Technology

July, 2023: Responded to and won the Call for applications for participation in a CREST Alumni Networking Workshop on Research and Capacity Development in Doctoral Supervision at African Universities at CREST, Stellenboch University, South Africa (19th-22nd September, 2023)

Accomplished Activities at Kibabii University

1. **Returning officer**, Kibabii University Students Elections 2025/2026.
2. **Returning officer**, Kibabii University Students Elections 2024/2025.
3. **Chairperson**, Ad-Hoc Committee Preparing for the Reporting and Registration of New Students 2024/2025 Academic Year.
4. **Chairperson**, Rapid Tech Skills Programme Implementation Committee.
5. **Chairperson**, Ad-Hoc Committee for establishment of industrial attachment and training policy.
6. **Chairperson**, Ad-Hoc Committee Preparing for the Reporting and Registration of New Students 2023/2024 Academic Year.
7. **Returning officer**, Kibabii University Students Elections 2023/2024.
8. **Facilitator**, Training of Education students on 21st Century Core Competencies of Teacher education and the Basic Education Curriculum Framework.
9. **Chair**, Development of Wardenship Policy.
10. **Chair**, Ad Hoc Committee for Proposal of Establishment of School of Education.
11. **Chair**, Ad Hoc Committee for Proposal of Establishment of Centre of STEM Education.
12. **Facilitator**, Training of staff teaching University wide common courses on educational measurement and evaluation.

Selected Publications

1. Situma, M.I, **Kati, R.** & Wafula, W. (2024): Implementation of Competency Based Assessment in Kenya: Extent of Utilization of Competency Based Assessment Tools and Types. *International Journal of Research and Innovation in Social Science* Vol VII IssueVI
2. Situma, M.I, Wafula, W. & **Kati, R.** (2024): Teacher Efficacy and Implementation Competency Based Assessment in Kenya. *International Journal of Research and Innovation in Social Science* Vol IX IssueVIII pp 126-134
3. **Kati, R** & Echaune, M. (2024): Does University Education Address 21st Century Skills? Reflections from Kibabii University, Kenya. *Journal of Research in Humanities and Social*

- Science* Vol 12 Issue8 pp:64-69
4. **Kati, R** (2024): Handling Difficult Topics in Linear Algebra Through Pedagogical Approaches. *International Journal of Latest Technology in Engineering, Management & Applied Science*. Vol 12 Issue7
 5. Nyongesa, J.W., Mutsotso, S.N. & **Kati, R.** (2024): Parental Participation and Achievement of Pupils in Environmental Activities at Lower Primary Schools in Kenya. *Journal of Research in Humanities and Social Science* Vol 12 Issue7
 6. Nyongesa, J.W., Mutsotso, S.N. & **Kati, R.** (2024): Helping Learners Acquire Competencies in Animal and Soil Conservation: The Case of Parental Engagement. *Journal of Research in Humanities and Social Science* Vol 12 Issue7
 7. Orodi, M.G., **Kati, R** & Masibo, E (2024) Comparative Analysis of Assessment Methods Enabled by Learning Management System in Technical Training Institutions in Kenya. *Journal of Education& Practice* Vol 15 No 7
 8. Orodi, M.G., Masibo, E & **Kati, R** (2024) Analyzing Trainees' Engagement with Learning Management System Across Various Modes of Study in Technical Training Institutions: A Case Study of Kenya. *Journal of Education& Practice* Vol 15 No 7
 9. Otuma, V., & **Kati, R.** (2024): The Mathematics-Language Proficiency: The Learner's Perspective. *International Journal of Research and Innovation in Social Science* Vol VIII Issue IV
 10. Cheloti, E.W., Singoro, B, & **Kati, R.** (2023). Student Digital Admission and Academic Management in Public Universities in Western Kenya. *Global Scientific Journals*. Vol.11 Issue 8
 11. Telewa, P.W., Maiyo, J. K., & **Kati, R.** (2023). Community Contribution and Student Unrest in Public Secondary Schools in Transzoia in West Sub-County. *Global Scientific Journals*. Vol.11 Issue 7
 12. Amwayi, E., Sirengo, J & **Kati, R.** (2022): MARKOVIAN Modeling of Students Performance by Cohorts in Secondary Schools. *Iconic Research and Engineering Journals*. Vol. 6 Issue 5
 13. Otuma, V., **Kati, R.** & Wasike, D. (2022): Specialized Mathematical English as a Resource of Learning Secondary School Mathematics: A Case Study in L2 Classrooms. *International Journal of Research and Innovation in Social Science* Vol VI IssueIX
 14. Okoti, D., **Kati, R.** & Mutende, R (2022). Structure and Content of Sports Training Curriculum and its association with Athletes' Achievement in Sports Academies in Kenya. *International Journal of Research and Innovation in Social Science* Vol VI Issue VIII, 383-390
 15. Otuma, V., **Kati, R.** & Wasike, D. (2022): Rethinking Proficiency in the Language of Teaching and Learning as a Pillar in the Learning of School Mathematics. *International Journal of English Language and Communication Studies*. Vol 8 Issue 5
 16. Okoti, D., **Kati, R.** & Mutende, R (2022). Coaches Qualifications and Athletes Achievement in Sports Academies in Kenya. *International Journal of Science and Research*. Vol II Issue 7
 17. Lukova, N., Manasi E. & **Kati, R.** (2022); Boards of Management Involvement in Teacher Motivation and Academic Achievement in Primary Schools in Trans- Nzoia County in Kenya; *International Journal of Scientific and Research Publications* (IJSRP) 12(2) (ISSN: 2250-3153)
 18. Lukova, N., **Kati, R.** & Manasi E. (2022); School Boards Involvement in Management of Finances and Academic Achievement in Primary Schools in Trans- Nzoia County in Kenya; *International Journal of Innovation Scientific Research and Review* Vol. 04, Issue,01pp.

2282-2286 (ISSN: 2582-6131)

19. Masika, R, Rono, R & **Kati, R.**(2022). Classification Algorithm for Career Recommendation System. *International Journal of Computer Applications Technology and Research Vol II* Issue 4, 91-97
20. Khamala, D. W, Maiyo, J. K., & **Kati, R.** (2021). Teachers' Perceptions on Adequacy and Utilization of Physical Resources in Public and Private Primary Schools in Lurambi Subcounty, Kenya. *Iconic research and Engineering Journals*, Vol 5 Issue 6, 30-35
21. Masika, R, Rono, R., & **Kati, R.** (2021). Extent of Usage of Collected Student Data in Career Choice in Kenya. *Iconic research and Engineering Journals*, Vol 5 Issue 6, 30-35
22. Owiye, J. A., Maiyo, J. K., & **Kati, R.** (2020). Teacher Perceptions on Implementation of Teacher Performance Appraisals in Public Secondary Schools in Bungoma County, Kenya. *The International Journal of Business & Management*, 8(8), 81–90.
23. Owiye, J., Maiyo, J. K., & **Kati, R.** (2020). Influence of Teacher Performance Appraisal and Development Policy on Implementation of Teacher Performance Appraisals in public secondary schools in Bungoma County. *International Organization of Scientific Research*, 25(8), 28–42. <https://doi.org/10.9790/0837-2508062842>
24. Wanyama, N, **Kati, R** & Nyongesa Ben (2019) Influence of Selection of Literature in English Guidebooks on Academic Performance of Learners in Secondary Schools in Bungoma County, Kenya. *International Journal of Contemporary Applied Researches* Vol.6, No.8
25. Nyangweso, J.O., Maiyo, J.K & **Kati, R** (2019) Effect of Secondary School Categorization on Value addition in Public Secondary Schools in Kenya. *Journal of Education & Practice* Vol 10 No 33
26. Nyangweso, J.O., Maiyo, J.K & **Kati, R** (2019) Effect of Secondary School Categorization on Examination Failure Rates Public Secondary Schools in Kenya. *Journal of Education & Practice* Vol 10 No 33
27. **Kati, R.** & Ahono T. (2019). Influence of Self-Instruction on Mathematics Achievement among Students in Secondary Schools in Kenya. *International Journal of Contemporary Applied Researches* Vol.6, No.3
28. **Kati, R.** & Ahono T. (2019). Influence of Self-Knowledge on Mathematics Achievement among Students in Secondary Schools in Kenya. *International Journal of Creative Research and Studies* Vol. 3, Issue 3
29. **Kati, R**, Wasike, D and Masibo, E. (2019). *Quantitative Skills I* (Module). Bungoma: Kibabii University. ISBN 978-9966-59-021-3.
30. Wasike, D, **Kati, R** and Masibo, E (2019). *Quantitative Skills II*(Module). Bungoma: Kibabii University. ISBN 978-9966-59-017-6.
31. **Kati, R** (2017) Factors Influencing Students' Academic Achievement in Linear Algebra. *International Journal of Education and Evaluation* Vol 3.No. 3
32. **Kati, R.**, Owiti, D & Ahono T. (2015). The Contribution of Teachers' Qualification on Achievement in Mathematics in Kenya. *Journal of Education and Literature* Vol 3. No.3
33. **Kati, R** & Amadalo, M. (2014). Teachers' Teaching Experience and Primary School Pupils' Achievement in Mathematics in Kenya. *Global Education Review* Vol 2. No.1
34. **Kati, R.**, Owiti, D & Ongati O. (2013). Teachers' Gender and Primary School Pupils' Achievement in Mathematics in Kenya. *Journal of Education and Practice* Vol 4.

Chapter in Edited Book

Ochieng, M.A, Miheso-O'Connor, M., **Kati, R.** & Kamina, P. (2024) Mathematics Teacher Education in Kenya: A Review of its Evolution and Development in Africa: Trends at Primary and Secondary School Levels. Springer International Publishers. Book. <https://doi.org/10.1007/979-031-68755-6>

Peer Reviewed and Presented Conferences Papers

2025 (June): Kibabii University 7th International Biennial Conference

Doctoral Supervision Development: The Why, How and Who?

2024(November): STEM Education International Conference, MMUST

i. *Extent of Multimedia Instructional Resources Utilization in Teaching Science and Technology in Grade 6 in Western Kenya*

ii. *Parental Role in Assisting Learners Acquire Entrepreneurial skills*

iii. *STEM Revolution: Harnessing The Power of Arts, Languages, and Social Sciences*

2023(November): STEM Education International Conference, MMUST

Mathematics Language proficiency: The learners' Perspective.

2020(November): STEM Education International Conference, MMUST

Preparedness towards Online Learning in the wake of Covid-19 Pandemic

2015(June): First JOOUST International Scientific Conference.

Contribution of Teachers' Qualification on Performance in Mathematics

Conferences Attendance

2025 (June): Kibabii University 7th International Biennial Conference

2024(November): STEM Education International Conference, MMUST

2023(November): STEM Education International Conference, MMUST

2023(July): Seventh Strathmore International Mathematics Conference.

2023 (June): Kibabii University 6th International Biennial Conference

2020(November): STEM Education International Conference, MMUST

2019(August): Fifth Strathmore International Mathematics Conference.

2017(June): Fourth Strathmore International Mathematics Conference.
2015(August): Third Strathmore International Mathematics Conference.
2015(June): First JOOUST International Scientific Conference.
2013(August): Second Strathmore International Mathematics Learned Conference.

Other Assignments

2021 to date: Peer Reviewer with Asian Journal of Education and Social Studies.
2021 to date: Peer Reviewer with International Knowledge Press.
2019 to date: Peer Reviewer with Journal of Education, Society and Behavioral Science.
2019 to date: Peer Reviewer with International Journal of Research and Scientific Innovation.
2015 to date: Peer Reviewer with Educational Research Journal.
2015 to date: Peer Reviewer with African Journal of Education and Social Sciences.

Completed Graduate Student Supervision

Oviyo Musimwa Safani, 2025 “Utilization of Laboratory Resources and Learners’ Achievement in Biology in Public Secondary Schools in Webuye West SubCounty, Kenya”, Med, Kibabii

Wenje John Nyongesa, 2024 “Parental Participation and Achievement of Pupils in Environmental Activities at Lower Primary Schools in Kenya”, PhD, Kibabii University

Macheso Isaac Situma , 2024 “Factors influencing Implementation of Competency Based Assessment in Kenya”, PhD, Kibabii University

Orodi Getrude Mubweka, 2024 “Utilization of Learning Management System and Effectiveness of Instructional Process in Technical Training Institutions in Kenya” PhD, Kibabii University

Telewa Protus Wanjala, 2023 “Influence of School-Community Relations on Student Unrest and Violence in Public Secondary Schools in Saboti Sub-County, Trans-Nzoia County, Kenya”, MED, Kibabii University

Evanson Cheloti Wanjala, 2023 “Influence of Digital Platforms on the Management of Academic Affairs in Public Universities in Western Kenya”, MED, Kibabii University

Okoti David, 2023 “Determinants of Sports Curriculum Implementation and Athletes’ Achievement in Sports Academies in Kenya”, PhD, Kibabii University

Otuma Vincent Nick, 2023 “Influence of Mathematical Language on Learners’ Conceptual Understanding of Mathematics in Secondary in Schools in Kenya”, PhD, Kibabii University

Lukova Newton Barasa, 2022, “Influence of Boards of Management on School Academic Achievement in Kenya Certificate of Primary Education in Trans-Nzoia County, Kenya”,

PhD (Educational Management & Policy Studies),Kibabii University

Masika Robert, 2022, “Educational Data Mining for Enhanced Career Recommendation in Kenyan Secondary Schools: Case of Bungoma County”, MIT,Kibabii University

Khamala David Wafula, 2022, “Effect of School Resources on Academic Achievement: A Comparative Study of Public and Private Primary Schools in Lurambi Sub-County, Kenya”, MeD (Education Planning and Management), Kibabii University.

Owiye Joan Amwayi, 2021, “Influence of Teacher Performance Appraisal Environment in the Implementation of Performance Appraisal among Public Secondary Schools in Bungoma County. PhD (Educational Management & Policy Studies),Kibabii University

Jaffary Omary Nyangweso, 2020, “Analysis of the Relationship between Secondary School Categorization on Academic Achievement at K.C.S.E in Public Secondary Schools in Kenya”, PhD (Education Planning and Management), Kibabii University.

Martin Nyongesa Wanyama, 2019, “Selection and use of Guide Books in the Teaching and Learning of Literature in English in Secondary Schools in Bungoma County, Kenya”, MeD (Curriculum and Instructional Technology), Kibabii University.

On-Going Graduate Student Supervision

Wamalwa Janet Nafula, “Cyber Security Strategy and Information Communication Technology User Risk Management in Secondary Schools in Kenya”, MIT,Kibabii University [on-going]

Theses Examination Undertaken

Sikolia Murunga Jacinta,2024,” Character Table of the Maximal Subgroup of 2^7 : G2 (2) of the Affine Subgroup SP8 (2) by Fischer Clifford Matrices “MSc Thesis Kibabii University

Koskei Julius Kiprono,2024, “Influence of Coaching Teaching Style on Biology Examinations in Public Secondary Schools in Molo Sub-County, Kenya” MED Thesis, Kisii University.

Lilian Namwenge Mutoro,2024,” Utilization of Laboratory Facilities in Learning Electricity and Their Influence on Learner’s Achievement in Physics Practical in Secondary Schools of Trans-Nzoia County, Kenya”, MED Thesis, Kibabii University.

Mutai Susan Jepkosgei Rono, 2024,” Influence of Code-Switching Teaching Strategy on Performance in Public Primary Schools: Case of Eldoret West Sub-County, Kenya” MED Thesis, Kisii University.

Clement Wekesa Sirengo,2024,” Application of Pauli Operators in Quantum Information Theory’ MSc Thesis Kibabii University

Austin Murambi Wandili,2023, “Influence of Resources on the Implementation of Computer Studies Curriculum in Public Secondary Schools in Bungoma County, Kenya”, MED Thesis, Kibabii University.

Johnson Bulowa,2022, “Influence of School based factors on Academic Performance in Secondary Schools in Transzoia County, Kenya”. PhD Thesis, Kibabii University.

Anthony Nakhumwa Dindi, 2022, “Determinants of Teacher Transfer intentions in Public Primary Schools in Merti Subcounty, Isiolo County, Kenya”, MED Thesis, Kibabii University.

Kapchanga Martin, 2022,” Boards of Management Strategy and Schools Development in Public Secondary Schools in West Pokot County, Kenya”, PhD Thesis, Kibabii University.

Wasilwa Juma Bakari, 2022, “Unit cost of Education and Students Enrolment Sustainability in Public Secondary Schools in Bungoma County, Kenya”, PhD Thesis, Kibabii University.

Jacinta Mukonyo Mutwiwa, 2022, “A Coupled Mathematical Model for Cervical Cancer Incorporating Difusion and Diagnosis”, PhD Thesis, Kibabii University.

Nasiali Ebby Vukhaya,2022,” Instructional Interaction Patterns and Secondary School Learners’ Attainment in Biology in Kakamega Central Subcounty, Kenya”, MED Thesis, Kibabii University.

Maruti Mary, 2022, “Performance Contracting and Service Delivery in Public Secondary Schools in Trans-Nzoia County” MED Thesis, Kibabii University.

Dorcas Nelima Wamukota, 2020, “Domain-Specific Beliefs of Biology Teachers about the Subject on the Integration of Instruction in Secondary Schools in Kenya”, PhD Thesis, Kibabii University.

Andanje Mulambula, 2020, “On the European Logistic-type Option Pricing with Jump Diffusion”, PhD Thesis, Kibabii University.

Dorcas Katiambo,2019, “Effectiveness of Classroom Interaction Patterns on Kenyan Secondary School Students’ Learning Outcomes in Mathematics”, PhD Thesis, Kibabii University.

Jacinta Mukonyo Mutwiwa, 2019, “Mathematical Modelling of the role of Interference on the Transmission dynamics and management of HIV and AIDS”, MSC Thesis, Kibabii University.

Vincent Nyongesa Marani, 2018, “Modular Representation of Mathieu Group M_{24} as Linear Codes”, PhD Thesis, Kibabii University.

Yonah Situma, 2018, “EDXRF Spectroscopic Elemental Analysis for Efficacy of Kibabii University Sewage Treatment System”, MSC Thesis, Kibabii University.

Maina Janet Lilian, 2018, “2-Modular Representation of the Unitary Group $U_3(4)$ ”, MSC Thesis, Kibabii University.

David Machas Masai, 2017, “Determinants of Academic Performance on Girls in Secondary Schools in Mount Elgon Sub County, Kenya”, MeD Thesis, Kibabii University.

Nelson Muhati, 2016, “Modeling of the Basic Reproduction Number of HIV and Tuberculosis Co-infection in the presence of Treatment”, Msc Thesis, Kibabii University.

Peter Wamalwa, 2016, “Factors Influencing Teacher Perception towards Implementation of SMASSE in Bungoma County”, MEd Thesis, Kibabii University.

External Examination

March, 2026 : External Reviewer of Turkana University College Research Proposals for the University Research Fund.

October 2023 to date- External Examiner in the Department of Curriculum Instruction and Media, Kisii University

July 2025 to date- External Examiner in the School of Education, Bomet University.

Research Interests

1. Teacher quality.
2. Concept formation in Science and Mathematics.
3. Diagnosing learning distress in school Science and Mathematics.
4. Gender parity in STEM education.
5. Teaching practice/School attachment improvement programmes.

Current Research undertaking

1. Co-principal investigator, Gender Parity in Stem Education in Kenya (GEPSTEMIC): Integrating Pedagogy and Technology to Ensure Resilience, Quality, Equity and Sustainability During and Post-COVID-19[submitted proposal to funders]
2. Principal Investigator, Prospects and Barriers to the Implementation of STEM Education in Kenya: A Survey of 9 STEM Schools in Kenya [submitted proposal to funders]
3. Researcher, Building Girls Resilience for Education beyond the COVID-19 in Kenya [submitted proposal to funders]

Hobbies

Watching documentaries

Listening to music

Dancing

Referees

Prof. Ipara Odeo
Kibabii University
P.O Box 1699-50200
BUNGOMA.

Prof. Julius Maiyo
Kibabii University
P.O Box 1699-50200
BUNGOMA.

Prof. Joshua Ogendo
Kibabii University
P.O Box 1699-50200
BUNGOMA.