

CURRICULUM VITAE

Dr. Robert Kati

B.Ed. (Science), M.Sc. (Mathematics Education),

PhD (Mathematics Education)



Career Objectives & Ambition

I intend to build a career in a leading professional environment with committed & dedicated people, which will help me to explore myself fully and realize my potential. I am willing to work as a key player in a challenging & creative environment.

Personal Information

Name: Dr. Robert Kati

Nationality: Kenyan

Sex: Male

Marital Status: Married with children

Present address: Department of Curriculum and Pedagogy
School of Education
Kibabii University
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Job Title and Responsibilities

Senior Lecturer and Dean, School of Graduate Studies, Kibabii University.

I teach mathematics content and pedagogy as well as provide academic advisory services to the department.

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)
Masinde Muliro University of Science and Technology, Kenya 1995- 1997	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
MSBM, UK (2022)	International Postgraduate Diploma in Corporate Governance and Leadership
MF Treinamentos (2022)	Certificate in Lean Six Sigma White Belt
MF Treinamentos (Ongoing)	Certificate in Lean Six Sigma Green 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
September,2021 to date	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, Kenya
September,2001-September,2009	Graduate Teacher, Vagina Secondary School, Vihiga, Kenya

Administration and Management

Date	Responsibility
October, 2022 to date	Dean, School of Graduate Studies, Kibabii University
May,2022 to date	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 date	Coordinator, Training of Trainers in Teacher Education and Management(TOTEMK) Project Implementation, Kibabii University
April,2022 to date	Chairperson, KIBU School of Education welfare
October, 2021 to January, 2022	Coordinator, Department of Science and Mathematics Education /Curriculum and Teaching, Kibabii University
March, 2022 to date	Chairman of the Board of Directors, Amatsi Water and Sewerage Co. LTD
May, 2021 to March, 2022	Chairman of Audit and Risk Committee of Board of Directors Amatsi, Water and Sewerage Co. Ltd.
May, 2021 to March, 2022	Member of Technical Committee of Board of Directors, Amatsi Water and Sewerage 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 to date	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
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 to date	Member of Kibabii University Self-Assessment Committee of University Programs.
July,2020 to date	Support Programme Leader for Bachelor of Education (Science)
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
February,2022 to date	Chairman, BUKAVI Self Help Group, Kibabii University
January 2022 to date	Coordinator, Education Planning Committee, Deliverance Church, Kakamega
May,2021 to date	Member of Board of Directors Amatsi Water and Sewerage Co. Ltd
2019- 2022	Chairman of Board of Management, Chandolo High School
2016 to date	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
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 date	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 CoD 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	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. Attending Senate and Faculty Management and Examination Board Meetings.
September, 2021 to date	Senior Lecturer at Kibabii University	Teaching, Research and Supervision of Undergraduate, MSc and PhD Students Academic Advisor and Mentor for students in the Department Member- Departmental and Faculty Boards
2015-2021	Chairperson, Department of Science and Mathematics Education, Kibabii University	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. Attending Senate and Faculty Management and Examination Board Meetings.
June, 2015- September, 2021	Lecturer (Mathematics Education) , Kibabii University	Teaching and conducting research Performing any other duties assigned by the Head of Department
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:
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-24th April) Athabasca University	Completed Online course on Leading Change in Teaching and Learning for a Digital World
November, 2021-February, 2022 University of Nairobi	Completed Training of Trainers for Teacher Education and Management in Kenya on Use of Modern 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 Cooperate Governance at Sossa Cottages, Vihiga
2019(August)	Attended a Workshop on Development of Scope and Sequence for Grades 7, 8 and 9 for the Competence 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. Recognized by the Department of Curriculum and Pedagogy of Kibabii University as the **lecturer of the year 2021/2022**.
2. Recognized by the School of Education of Kibabii University as the **lecturer of the year 2021/2022**.
3. Awarded a certificate of **Academic Excellence** in 2022 by the Bishop of Deliverance Church Kakamega for exemplary service.
4. 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.
5. 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.

Accomplished Activities at Kibabii University

1. **Chair**, Development of Wardenship Policy
2. **Chair**, Ad Hoc Committee for Proposal of Establishment of School of Education.
3. **Chair**, Ad Hoc Committee for Proposal of Establishment of Centre of STEM Education
4. **Facilitator**, Training of staff teaching University wide common courses on educational measurement and evaluation.
5. **Facilitator**, Training of years' 3 & 4 education students on Competency Based Curriculum.

Selected Publications

1. 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
2. Otuma, V., **Kati, R.** & Wasike, D. (2012): 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
3. 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
4. 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)
5. Lukova, N., Manasi E. & **Kati, R.** (2022); Influence of Boards Of Management in Teacher Motivation And Academic Achievement In Primary Schools In Trans-Nzoia County in Kenya; *International Journal of Science and Research (IJSR)* 12(2) (ISSN: 2319-7064)
6. 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
7. 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
8. 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
9. 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.
10. 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>
11. 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
12. Nyangweso, J.O., Maiyo, J.K & **Kati, R** (2019) Effect of Secondary School Categorisation on Value addition in Public Secondary Schools in Kenya. *Journal of Education & Practice* Vol 10 No 33
13. Nyangweso, J.O., Maiyo, J.K & **Kati, R** (2019) Effect of Secondary School Categorisation on Examination Failure Rates Public Secondary Schools in Kenya. *Journal of Education & Practice* Vol 10 No 33

14. **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
15. **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
16. **Kati, R.**, Wasike, D and Masibo, E. (2019). *Quantitative Skills I* (Module). Bungoma: Kibabii University. ISBN 978-9966-59-021-3.
17. Wasike, D, **Kati, R.** and Masibo, E (2019). *Quantitative Skills II* (Module). Bungoma: Kibabii University. ISBN 978-9966-59-017-6.
18. **Kati, R.** (2017) Factors influencing students' Academic Achievement in Linear Algebra. *International Journal of Education and Evaluation* Vol 3.No. 3
19. **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
20. **Kati, R.** & Amadalo, M. (2014). Teachers' Teaching Experience and Primary School Pupils' Achievement in Mathematics in Kenya. *Global Education Review* Vol 2. No.1
21. **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. No.25

Peer Reviewed and Presented Conferences Papers

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

2020(November): STEM Education International Conference, MMUST

2019(August): Fifth Strathmore International Mathematics Learned Conference.

2017(June): Fourth Strathmore International Mathematics Learned Conference.

2015(August): Third Strathmore International Mathematics Learned 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

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]
- Okoti David,” Determinants of Sports Curriculum Implementation and Athletes’ Achievement in Sports Academies in Kenya”, PhD, Kibabii University [on-going]
- Otuma Vincent Nick, “Influence of Mathematical Language on Learners’ Conceptual Understanding of Mathematics in Secondary in Schools in Kenya”, PhD, Kibabii University [on-going]
- Telewa Protus Wanjala, “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 [on-going]

Theses Examination Undertaken

- Jacinta Mukonyo Mutwiwa, 2022, “ A Coupled Mathematical Model for Cervical Cancer Incorporating Difusion and Diagnosis” ”, Phd 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.

Research Interests

1. Teacher quality.
2. Concept formation in Science and Mathematics.
3. Diagnosing learning distress in Secondary and Primary 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[proposal development stage]
3. Researcher, Building Girls Resilience for Education beyond the COVID-19 in Kenya[submitted proposal to funders]

Hobbies

Watching documentaries and listening to music
Dancing

Referees

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