

CURRICULUM VITAE

DR. ROSE ATIENO MUTENDE

**DEPARTMENT OF CURRICULUM AND PEDAGOGY
KIBABII UNIVERSITY
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BIO-DATA

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Nationality:	Kenyan

PROFESSIONAL INTENT

Improve education through influencing teacher educators and instructors to adopt STEM pedagogies in their professional activities.

CAREER OBJECTIVES

- Use my knowledge and skills of curriculum design and implementation to transform inappropriate instructional practices in tertiary education locally and globally.
- Conduct research and publish in order to remain a current professional researcher and educator.

EDUCATIONAL BACKGROUND

1988: Kenya advanced Certificate of Education (K.A.C.E).

1986: Kenya Certificate of Education (K.C.E).

1982: Certificate of Primary Education (CPE).

PROFESSIONAL QUALIFICATIONS

- Doctor of Education (Curriculum Studies) Degree, University of Nairobi, Kenya.
- Master of Education (Science Teacher Education) Degree (Aga Khan University, Institute for Educational Development, Eastern Africa.
- Bachelor of Education (Science) Degree, Moi University.
- Diploma in Science Education, Moi Teachers' College, Eldoret, Kenya.

PREFERRED FIELDS OF WORK

- Design, implement, evaluate and monitor educational curricular and programs.

- Teacher professional development and training with the aim of improving instructional practices.
- Development of STEM learning/training materials through research and publication
- Conducting research

AREAS OF EXPERTISE

- Development of appropriate course structures and lesson plans for blended delivery using Moodle platform.
- Integrate Open Education Resources (OER) and other learning resources/content within STEM content.
- Development of learning resources for secondary, post-secondary, and TVET institutions.
- Teacher training and professional development for vocational instructors.
- Design and implement of Science Education programs.
- Draw up and implement Science Educational and other work plans.
- Development of and implementation of policies and procedure manuals
- Development and evaluation/audit of Quality Management Systems.
- Research (data collection analysis, interpretation and report writing)

PROFESSIONAL TEACHING AND RESEARCH INTERESTS

- Science Teacher Education
- Integration of technology in science education

CAREER SUMMARY

Current Employer: Kibabii University

Positions held:

- Lecturer, Department of Curriculum and Pedagogy
- Coordinator, Centre of STEM (CoSTEM)

TEACHING EXPERIENCE AT KIBABII UNIVERSITY

Lecturer in the Department of Curriculum and Pedagogy

- **Undergraduate Courses**
- **Post Graduate Courses**

Responsibilities

- Promoting and implementing quality teaching, learning and research activities in the department.
- Ensuring that course assignments are done (supervision of undergraduate).
- Participation in conferences, workshops, seminars, symposia, internally and externally.
- Holding consultation with students on academic affairs.
- Participating in the development of new programs and revision of existing ones. (proof-reading)
- Facilitating allocated courses
- Administering and supervising examinations.

- Preparing, Summarizing and presenting examination results for students to the chair of department and onward for approval by the Faculty Board of Examiners
- Participating in faculty or departmental meetings / writing minutes.
- Liaising with chair of department in all matters delegated to me.
- Advising students on academic matters and listening to their problems and requests.
- Setting and moderating examinations
- Marking and moderating examination results
- Organizing course examination records of students.

SERVICE TO KIBABII UNIVERSITY

- Member, Kibabii University senate
- Coordinator, KIBU Centre of STEM
- Board Member, Directorate of Quality Assurance and Performance Contracting, KIBU.
- Auditor, Kibabii University Internal Quality Systems
- Departmental ODEL Champion
- BEd Science Student academic advisor on general academic responsibilities, and specific program opportunities in academia and in the field of work

EXTENSION SERVICES TO THE COMMUNITY

- Member, Board of Management Booker Academy (2018-to date)
- Vice Chair, Board of Management, Musanda Secondary School (2018-date)
- Member, Board of Education and Training, Anglican Church of Kenya, Diocese of Mumias (2018-to date).
- Member, Bungoma County Government HIV Strategic Plan (2015/2016 – 2019/2020) Committee

SKILLS ABILITIES

My academic and professional qualifications as well as experience as secondary school teacher and now a science teacher educator have helped me develop the ability to competently;

- Analyze, develop and enrich education curricula.
- Design, and apply technology-enriched learning resources and activities that can enhance and enrich the pedagogical knowledge and skills in STEM concepts with a focus on quality teaching and learning.
- Identify and analyze emerging and contextually relevant issues, and articulate their implications for the teaching, learning, assessment in STEM subjects and courses.
- Explore the contemporary teaching approaches such as blended learning and the alternative methods and assessment practices, and demonstrate their implications for students learning and teachers' delivery at secondary school and post secondary levels.
- Conduct research to address identified educational issues, or concepts in the teaching and learning of STEM curricula, and which impact on student learning as well as teacher delivery.

- Teach various postgraduate and undergraduate courses as assigned in the department
- Supervise and support postgraduate students to undertake research and write theses and dissertations.
- Supervise and support students on teaching practice to develop pedagogical knowledge and skills for effective implementation of curricula.
- Develop and apply appropriate instructional materials and learning aids including multimedia, for use in teaching, and which can create interest, foster critical thinking, and enhance learners understanding of concepts.
- Drive the center for STEM Education through inter-departmental and cross-institutional collaboration by sourcing for resources and expertise for STEM faculty to strengthen and expand their skills, and by sharing best practices within Kibabii University and beyond.
- Build and support a community of teachers, facilitators, educators, instructors and students with the collective goal of embracing and strengthening STEM Education.
- Identify and analyze emerging and contextually relevant issues in STEM Education and STEM fields, and articulate their implications for the teaching, learning, assessment and the STEM curriculum.
- Development and or identification of STEM Education instructional materials
- Plan for and successfully run effective educational workshops and conferences for STEM Education.
- Conduct research to generate and publish new knowledge for STEM education reforms, participate and make presentation at local and international conferences.

PERSONAL ATTRIBUTES

- Open minded and ready to learn and adapt to new expectations and challenges.
- High achiever with a strong interpersonal, team building, presentation and communications skills.
- Innovative with the drive and skills to influence STEM facilitators, instructors, teachers, teacher educators and lecturers.

PARTICIPATION PROFESSIONAL DEVELOPMENT

- **July to November 2021:** I participated in the planning of the virtual STEM Education International Conference 2021 (STEMEIC2021), themed “**STEM Education and Innovation in Africa and beyond during and post COVID-19: Ensuring Quality, Equity and Inclusivity**” held on 17th – 19th Nov 2021.
- **11th February, 2021 and 12th February, 2021:** Attended a workshop on Designing Blended Courses in Moodle.
- **16th November 2020– 4th December 2020: Moodle Training** (Collaboration of Kibabii University and Commonwealth of Learning).
- **31st August 2020 to 4th September 2020: Digital Content Training** to enable lecturers to interact with students online.

- **22nd April 2020:** Training on basic skills of managing online teaching and learning specifically Designing Self-Directed Online Courses and Assessments on the Kibabii University E-Learning Platform and Using Video-Conferencing facilities in Open and Distance learning.
- **September 11th – 17th 2015:** Attended and successfully completed training in **Quality Management Systems based on ISO 9001: 2008** at Kibabii University College
- **July 27th-28th 2015:** Successfully attended and participated in **Pedagogical Skill Training Workshop** at Kibabii University
- **March 16th -18th 2015:** Successfully completed a course in **Assessment and Examination for ISO 9001: 2008 Internal Quality Auditor Course**
- **October 2014 – Feb.2015** – Attended participated in the preparation of **ISO Quality Management System Procedures**
- **May 15th – 16th 2014** – Attended and successfully completed **Corporate Governance Training Course**
- **March 21st 2014:** Attended Kibabii University Staff Induction Workshop on **Enhancing Management Culture, Integration and Internalization**
- **2002 – 2008:** Attended and completed the on-going INSET for secondary school teachers in the **Strengthening of Mathematics and Science in Education (SMASE)** - a project of the Kenya Government (Ministry of Education) and JICA, whose focus is to improve on the teaching of science and mathematics subjects in schools.
- **1996:** Trained as an examiner for the Kenya National Examination Council (KNEC) to mark the Kenya Certificate of Secondary Examination (KCSE).

SCHOLARLY PRESENTATIONS AT INTERNATIONAL EDUCATIONAL CONFERENCES

- **February 20th – 21st 2012:** Presented an educational research paper at an International Conference on: **Education Reform and Innovation in Enhancing Quality and Equity** held at Kenyatta University.
- **June 9th – 12th 2015:** Presented an educational research paper at an International Conference on **New Paradigms in National and International Security** hosted by MMUST in collaboration with Educational Management Society of Kenya.
- **June 14th- 15th 2017:** Presented an educational research paper during the 2nd Interdisciplinary, International Scientific Conference on: **Innovative Research and Knowledge for Global Competitiveness and Sustainable Development** held at Kibabii University

RESEARCH AND PUBLICATIONS

Academic links

1. <https://orcid.org/0000-0003-0030-1113>
2. Google Scholar: Dr. Rose Mutende