

NAME: HENRY NATHAN WATI

Photograph

Job Title and Responsibilities

Assistant Lecturer in Mathematics Education in Science and Mathematics Education Department.

Responsibilities include Teaching Mathematics Education, Quantitative Skills I and II, supervising Teacher Trainees on School Practice, mentorship to Mathematics Teacher trainees and Research in Mathematics Education.

About Me

On graduation into the Teaching Profession in 1983, I taught in various high schools and attained outstanding examination results in Mathematics and Accounting culminating in the government of Kenya through Permanent Secretary Ministry of Education appointing me in 1988 to develop class textbooks in Accounting to support the 8-4-4 systems newly introduced. Wrote two books as listed under publications. I was appointed and served as Deputy Principal and Principal for some of the leading High Schools in Bungoma notably Teremi High School, Bokoli High School and Mahanga Secondary School. I served as Head of Research and Development at the Sigalagala Polytechnic and Coordinator of Performance contract. The college was ranked position 4 in Kenya in performance contracts.

This led to my elevation as a National Evaluator appointed by the Ministry of Planning and Devotion in 2013.

As a lecturer at the University I am currently working on the best of integration of ICT in teaching of Mathematics at Secondary School level and in TVET institutions.

Qualifications

A. Universities/ Colleges

	Year	Award
1. Masinde Muliro University of Science and Technology	2012- To date	Ph.d-Mathematics Education (On-going). Successfully completed coursework and Examination, defended Research Proposal and now working on Thesis titled "Effect of Computer Algebra Systems on Mathematics Achievement in TUET Institutions in Western Kenya"
2. Masinde Muliro University of Science and Technology	2007-2011	MSC (Science Education Mathematics option). Thesis "Effect of Computer Based Instruction on Mathematics Achievement in Secondary Schools in Kakamega South District.
3. Sigalagala Polytechnic	2010-2011	Higher Diploma in Human Resource Management (KNEC Examined).
4. University of Nairobi	1987-1992	B.Ed (Hons). Mathematics and Economics
5. Kenya Technical Teachers College- Nairobi	1980-1983	Diploma in Education (Business Education) C.P.A I (KASNEB)

Professional Membership and Activities

- i) Member of KICD (former K.I.E) on Curriculum Development in the Technical Education Programme (TEP)
- ii) Member of Adhoc Committee on Performance contracts in Kenya.
- iii) Student member of Institute of Certified Public Accountants of Kenya

Expertise

- i) Specialized in integration of ICT in the Teaching and Learning of Mathematics development and application of instructional software appropriate to Secondary school mathematics and Engineering Mathematics for TVET institutions. Expertise in Teaching operations Research / Quantitative Techniques.
- ii) Lead National Expert in performance contract negotiations, vetting Review and Evaluation in Kenya. Currently serving as Independent External Expert with the Presidency (Ministry of Planning and Devolution) on Adhoc basis. Participates in Evaluation of performance contracts between the President of the Republic of Kenya and respective cabinet secretaries, The Cabinet Secretaries and C.E.O's of parastatals and Government Agencies including public universities.
- iii) Practiced with Excellency in the management of Education Institutions, Programmes and projects. Was principal of some of the leading public high schools in Western Kenya, was coordinator of school based programme for Special Needs Education Teachers (KISE) for Western Region (Western and Nyanza) i.e. Diploma in Special Needs Education. Served on the National Panel for Curriculum Development for Secondary Education K.I.C.D (formerly K.I.E), and an Author of Educational Resource Materials.
- iv) Trained Auditor for ISO Certification and Information Security Management Systems.

Enterprise and Commercial Activities

Actively participating in Consultancy Services in Strategic Management (Development of Strategic plans), Performance Appraisal of staff, Human Resource Capacity Building Training Needs Assessment, Director of a Registered and active consultancy firm: COPERE Consultancy and Enterprise Co. Ltd.

Research Interests

- i) Major Research interest in Mathematics Education and especially in integration of ICT in the teaching and learning of Mathematics. Concluded Research on the Effects of Computer Based Instruction on Mathematics Achievement in TVET institutions.
- ii) The two researches have been self-funded with lots of financial constraints. The latest research revolves around the use of MATHEMATICA Instructional software to teach CALCULUS to students enrolled in Engineering Programmes in TVET institution at Diploma level. The students are examined by KNEC in Engineering Mechanical Mathematics Programmes such as Civil Engineering, Mechanical Engineering, Electrical Engineering and Survey.

Publications

1. Effect of tutorial software on students' achievement in probability concepts in secondary schools in Bungoma County. ISSN No. 2074-5400: Kenya Journal of Educational Planning and Management (2013) Volume 6, Issue 1.
2. 2011 – Developed the Strategic Plan for Sigalagala Polytechnic.
3. The effect of computer based instruction in student's achievement in Mathematics. A case of Secondary School students of Kakamega South District. (Unpublished Thesis).
4. Accounting: Pupils Book for form Three Jomo Kenyatta Foundation
5. Accounting: Pupils Book for form Four Jomo Kenyatta Foundation

Current Teaching

1. ESM 101 and ESM 104 (Quantitative Skills I & II) for First years regular at main campus and School Based group at Bishop Sulumeti teaching centre.
2. ESM 311(Mathematics Education) for third year students at main campus and Webuye campus.

Contact Details

P.O. BOX 491 KIMILILI KENYA

E-mail: henry_wati@yahoo.com hwati@mmust.ac.ke

Facebook page: Henry wati