



MESSAGE FROM CHAIRMAN OF DEPARTMENT



Dr. Boniface Kwach-Ph.D

Welcome to the Department of Mathematics at Kibabii University. We thrive in an environment of greater academic inquiry, dynamic faculty, high quality teaching and Research. Currently, we offer academic programs at both undergraduate and postgraduate levels in statistics, applied and pure mathematics. I welcome you to this Department as a current or prospective mathematician. In this first ever newsletter, we highlight our teaching framework and plans.

DYNAMIC FACULTY

Department of mathematics has diverse and talented staff in different themes of Mathematics. They include full time and Part-Time staff. The following are the full time staff members. Doctor Boniface Kwach is a Ph.D holder in applied Mathematics. He has featured in Research involving Mathematical modeling of biological systems. He doubles as the Departmental Chair.



Prof. Shem Aywa –Ph.D.

Shem Aywa is a professor of Pure Mathematics with wide research interests including Spaces of Compact Operators, Analysis, and Sequences in Banach Spaces among many areas of pure Mathematics. He doubles up as Deputy Vice-Chancellor in charge of Administration, Finance and Development.

FACULTY CONTINUED...



Dr. Lucy Chikamai-Ph.D

Doctor Lucy Chikamai is a Philosophy Doctor in pure Mathematics with featured research in Coding Theory. She also doubles up as Dean, Faculty of Science



Mulati Nyukuri-Ph.D Candidate

Mr. Mulati Nyukuri is a talented statistician with featured research in statistical theory, Statistical Modeling and Computing.



Magero Vincent-Ph.D candidate

Mr. Magero Vincent is a talented Bio-Statistician with special research interests in statistical Modeling of biological species.



Marani Vincent-Ph.D Candidate

Mr. Vincent Marani is a scholar of pure Mathematics keen on algebraic research in the area of coding theory



Mulambula Andanje- Ph.D Candidate

Mr. Mulambula Andanje is a scholar in Applied Mathematics with special interests in controllability of Quasi Linear Heat Equations



Kololi Moses-Ph.D Candidate

Mr. Kololi Moses is an applied Statistician with special research interests on Chebyshev's polynomials of non-smooth functionals in estimation



Sirengo John- Ph.D Candidate

Mr. Sirengo John is a scholar in Statistics with research interests in Social Statistics



Mr. Juma Shem Godfrey- MSc.

Mr. Juma Shem Godfrey is the Principal Technologist and supports staff and students in administrative and technical tasks. He has research interests in Climate Change and modeling of the climate system.



Magma Computational Algebra System

Hosted at Kibabii University, Department of Mathematics

MAGMA is a large, well-supported software package designed for computations in algebra, number theory, algebraic geometry and algebraic combinatorics. It provides a mathematically rigorous environment for defining and working with structures such as groups, rings, fields, modules, algebras, schemes, curves, graphs, designs, codes and many others.

MAGMA also supports a number of databases designed to aid computational research in those areas of mathematics which are algebraic in nature. Our Department in collaboration with the University of SYDNEY, Australia takes pride at being a pioneer university in Kenya to host this system. This system is a tool used by researchers and learners to enhance output in pure mathematics, Courtesy of **Professor Shem Aywa** and **Dr. Lucy Chikamai** who are scholars in Pure Mathematics.

RESESARCH HIGHLIGHT

The Department of mathematics embraces sustainable research in its day to day activities. The research activities of individual staff can be found at <https://scholar.google.com/> by conducting a full name search.

FORMATION OF KIBABII UNIVERSITY MATHEMATICS STUDENTS ASSOCIATION (KUMSA)

The Mathematics club is headed by Mr. Mulambula Andanje and is actively engaged in academic and community service activities. Plans are on the way to restructure it into KUMSA.

UPCOMING RESEARCH LABORATORY

The Department of Mathematics has acquired a laboratory and is in the process of equipping it with teaching and research resources. Upon completion, the laboratory will facilitate enhanced teaching and research activities by staff and students.

CONTACTS

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