THE TECHNICAL UNIVERSITY OF KENYA

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Consultation Hours:	8AM-5PM MON - FRI

EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	Physics, X-ray Fluorescence	University of Antwerp(Belgium)	1991
Masters of Science (M.Sc.)	Physics, Nuclear Analytical Techniques	University of Nairobi(Kenya)	1986
Bachelor of Science (BSc)	Mathematics and Physics	University of Nairobi(Kenya)	1981

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
Sep.2014 - To date	Technical University of Kenya	Professor
Sept 1995 - Sept 2013	Egerton University	Associate Professor
2011 - Feb 2016	Kenya Polytechnic University College	Executive Dean
Sept 2013 - 2014	Egerton University	Professor
2007 - 2011	Egerton University	Egerton University Council, Senate Representative
2007 - 2011	Egerton University	Associate Dean, Faculty of Science
1994 - 2002	Egerton University	Chairman of Physics Department
1992 - 1995	Egerton University	Senior Lecturer
1990 - 1992	University of Nairobi	Lecturer
1984 - 1990	University of Nairobi	Tutorial Fellow
1983 - 1984	University Nairobi	Graduate Assistant

GENERAL STATEMENT ON RESEARCH AREAS

Telecommunications Applications of Physics in the Study of Insect Communication Applications of Nuclear Analytical Techniques in Environmental and Biological Sciences

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Characteristic Performance of a Polarized MIMO Dipole in an Indoor Environment at 5.2 GHz	View online	
Microprocessor Based Temperature Controller on Power Transistors	View online	
A comparative study of Anopheles Gambiae Male mosquito's response to frequency modulated [FM] and Pulse Modulated [PM] waves at different acoustic frequencies and distances	View online	
Determination of rare earth elements in geological materials by total reflection X-ray fluorescence.,	View online	
Total reflection X-ray fluorescence analysis using an extended focus tube for the determination of dissolved elements in rain water	View online	
Energy dispersive X-ray fluorescence of borax beads using double dilution without comparison standards, X-ray Spectrometry.,	View online	
EDXRF analysis of geological materials in borax beads using Tertians Binary Coefficient approach combined with internal standard addition	View online	
Introduction to Electronics (Book)	View online	
Use of Theoretical accurate influence coefficients with Tertians equation in X-ray fluorescence analysis of silicate rocks in borax beads, X-ray Spectrometry	View online	
Evaluation of Fundamental parameters method for Biological materials and soil analysis by energy dispersive X- ray spectrometry	View online	

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Charles K. Wangati	Synthesis and Characterisation of CuAlxB1-xSe2 T thin films deposited by Magnetron Sputtering for P	2013 PhD studies
Daniel Mutiso Kasuku	Conversion of Acoustic Energy into Electrical Energy; M.Sc	2013
Muchai Ian Kaniu	Development of Nuclear Digital Spectrometric Analysis via Machine Learning and application to trace	2013 ; Graduated PhD
Germana William Mlay	Impact of Radioactivity on Communities and in the Ecosystem of Manyoni District in Singida Region, Central Tanzania	2019 PhD studies
Bendibbie M. Mulwa	Radioactivity in the Ecosystem of Mrima Hill area in Kenya: Application of Multivariate Techniques a	2013 PhD studies

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
MEMBER	The Kenya Physical Society

EXTRA INFORMATION

DESCRIPTION

Associate Member, Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste , Italy (1998 - 2005)