



THE TECHNICAL UNIVERSITY OF KENYA

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CURRENT DESIGNATION: PROFESSOR AND EXECUTIVE DEAN

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CONSULTATION HOURS: 8AM-5PM MON - FRI



EDUCATION

QUALIFICATION	AREA OF SPECIALIZATION	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER	UNIVERSITY OF SOUTH WALES (AUSTRALIA)	1994
Doctor of Philosophy (PhD)	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER	UNIVERSITY OF NEW SOUTH WALES (KENYA)	1994
Masters of Science (M.Sc.)	APPLIED MATHEMATICS	KENYATTA UNIVERSITY (KENYA)	1989
Bachelor of Education (B.Ed)	MATHEMATICS, COMPUTER, AND EDUCATION	KENYATTA UNIVERSITY (KENYA)	1987

WORK EXPERIENCE

PERIOD	POSITION	INSTITUTION
SEPTEMBER 1989 - JANUARY 1990	ASSISTANT LECTURER	EGERTON UNIVERSITY- NJORO (KENYA)
1994 - 2010	SENIOR LECTURER	KENYATTA UNIVERSITY (KENYA)
1990 - 1994	PART-TIME TUTOR	UNIVERSITY OF SOUTH WALES (AUSTRALIA)

SELECTED PUBLICATIONS

- BUOYANCY DRIVEN NATURAL CONVECTION HEAT TRANSFER IN AN ENCLOSURE
[SUBMITTED 2008 FOR PUBLICATION BY EAJPS.](#)

- THE USE OF MESH GENERATION FUNCTIONS FOR THE SOLUTIONS OF NATURAL CONVECTION PROBLEMS
[EAST AFRICAN JOURNAL OF PHYSICAL SCIENCES VOL.6 \(1\):21-31, 2005](#)

- VARIABLE FALSE TRANSIENT FOR THE SOLUTION OF COUPLED ELLIPTIC EQUATIONS
[EAST AFRICAN JOURNAL OF PHYSICAL SCIENCES VOL.6\(2\):107-116 2005](#)

- BUOYANCY DRIVEN FREE- CONVECTION TURBULENT HEAT TRANSFER IN AN ENCLOSURE.
[SUBMITTED FOR PUBLICATION 2007 BY JAGST-JKUAT.](#)

- NUMERICAL STUDY OF FREE CONVECTION TURBULENT HEAT TRANSFER IN AN ENCLOSURE
[ENERGY CONVERSION AND MANAGEMENT VOLUME/ISSUE 45/15-16, PP. 2571-2582, 2004](#)

- NATURAL CONVECTION IN AN ENCLOSURE WITH LOCALIZED HEATING AND COOLING: A NUMERICAL STUDY
[HEAT TRANSFER 1994, G.F. HEWITT \(ED\)VOL.2,PP 361-3661 1994. \(PAPER AVAILABLE AT](#)
[http://De vahl davis pubs 1994\)](http://De vahl davis pubs 1994)

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 DEVELOPING A NUMERICAL SIMULATION OF VASCULAR BRAIN TUMOR GROWTH USING 2-DIMENSIONALPARTIAL
 DIFFERENTIAL EQUATION
http://www.ikpress.org/abstract/5015#.Vmf5_uKmQjA

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 DEVELOPING A NUMERICAL SIMULATION OF VASCULAR BRAIN TUMOR GROWTH USING 1-DIMENSIONALPARTIAL
 DIFFERENTIAL EQUATION
<http://www.ikpress.org/abstract/5030#.Vmf5luKmQjA>

CURRENT POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
PHD THESIS - KINYANJUI MATHEW :	MHD FLOWS WITH HALL AND ION-SLIP CURRENTS , JKUAT	1999
PHD THESIS- SIGEY,J. KIBET	NUMERICAL STUDY OF FREE CONVECTION IN ENCLOSURES	2005
MSC THESIS -RUTO NELSON KIPKOECH	CANOIDS EQUATIONS	1996
MSC THESIS- NJOROGE GEORGE KARIUKI	NUMERICAL SIMULATION OF NATURAL CONVECTION IN AN ENCLOSURE	1997
MS THESIS - SIGEY J. KIBET	TURBULENT NATURAL CONVECTION IN AN ENCLOSURE	1999
MSC THESIS- THOYA PATRICK KITSAO	LAMINAR CONVECTION IN A RECTANGULAR CAVITY	2002
MSC THESIS -KENNEDY OTIENO	TURBULENT NATURAL CONVECTION FLOWS	2004
MSC THESIS - BETH MENGE KEMBO	NUMERICAL STUDY OF BUOYANCY DRIVEN TURBULENT NATURAL CONVECTION IN AN ENCLOSURE	2004
MS THESIS - MWANGI ELIAS GITAU	TURBULENT NATURAL CONVECTION IN AN ENCLOSURE WITH LOCALIZED HEATING AND COOLING	2005
MSC THESIS - NDOLO HUDSON MUSYOKI	NUMERICAL COMPUTATION OF TURBULENT CONVECTION WITH LOCALIZED HEATING AND COOLING	2005
MSC THESIS- MUTUKU WINFRED NDUKU	UNSTEADY FLOW OF HYDROMAGNETIC FLUID PAST ANIFORMLY INFINITE VERTICAL POROUS PLATE	2006
MSC THESIS- NDANO ROSE W.	THE MEHOD OF VARIABLE FALSE TRANSIENT FACTORS FOR THE SOLUTION OF NATURAL CONVECTION PROBLEMS	2006
MSC THESIS- NJOROGE HANNAH I. NJOKI	TWO DIMENSIONAL BUOYANCY DRIVEN TURBULENT NATURAL CONVECTION IN A SQUARE ENCLOSURE	2008
MSC THESIS- KIPNGENO JOEL	TURBULENT NATURAL CONVECTION WITH LOCALIZED HEATING AND COOLING ON OPPOSITE VERTICAL WALLS OF AN EN	2008