

# CURRICULUM VITAE

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2. **DATE OF BIRTH:** 24<sup>th</sup> July 1948.

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## 5. QUALIFICATIONS:

- Ph.D. University of Nairobi
- M.E. University of Poona
- B.E. University of Poona

## 6. MEMBERSHIP OF PROFESSIONAL BODIES

- Indian Science Congress Association. (Life Member)
- Indian Society for Technical Education.
- Institution of Electrical & Electronic Engineers(I.E.E.E),U.S.A. M 4759411.
- Kenya National Association of Physicists Kenya (KNAP Kenya).
- Member, Academic Board of Kenya Institute of Education.

## 7. EDUCATIONAL BACKGROUND

- 2012 Ph.D. University of Nairobi .
- 1974 Master of Engineering (Instrumentation & Control).
- 1971 Bachelor of Engineering (Electronics & Telecommunication).  
Both (B.E. & M.E.) degrees from Government College of Engineering Pune (India).
- 1964: Matriculation from Rajasthan High School LATUR (Maharashtra) India.

## 8. PUBLICATIONS / RESEARCH

- **“Practical and Theoretical Evaluation of EMC/EMI Problems of Metallic Enclosures with Apertures”**. IJTPE. ISSN (July 2010):2077-3528.
- **“Combined Field Integral formulation for Broadwall Radiating Slots of arbitrary Shape”**, 24th Sept. 2009. IEEE-Africon 2009. , Safari Park Hotel, Nairobi.
- **“Analysis of Electromagnetic Radiation via a Slot of Arbitrary shape in a Rectangular Enclosure homogeneously-filled with Dielectric Material”**. WSEAS. (July 2008):247-255.
- **“Telemedicine for Developing Countries”** CONFERENCE ON Recent Trends in Information Technology for Rural Development, GMCE, Shegaon (MAH) India 9th& 10thDecember 2007.
- **“A Controller for a Wind Driven Micro-Power Electric Generator”** International Conference on” Advances in Engineering and Technology ( AET 2006)” held in Entebe (Uganda) during 16th-19thJuly 2006
- **“Cavity- Backed Broadwall Radiating Slots in Rectangular Wave Guide”** International Conference on Engineering & Mathematics, Bilbao, Spain July 2006.

- **“Radiating Slots in a Thick Conducting Broad Wall of a Rectangular Waveguide”** National Conference on Broadband Communication Systems(NCBS 2006) held in Pune(India) during 2nd and 3rd September 2006
- **“Technological Curriculum & Culture”** Conference on “Challenges for technological Education in view of Global Changes at JSPM –ISTE convention Pune(India) Jan. 2008. Referee: For Journal of Agriculture Science & Technology, JKUAT Vol.8, No.1 2006.
- **“Current Trends in Computational Electromagnetic Techniques”** International Conference (IEEE ) on “Multidisciplinary Aspects of Engineering (IMAE 05) in Pune (India) during 7<sup>th</sup> - 8<sup>th</sup> January 2005

## 9. EMPLOYMENT DETAILS

- Honorary Professor at the “AISSMC’s Women’s College of Engineering, Pune”, affiliated to University Of Pune (India) in September 2005.
- 1997 To-date University of Nairobi, Lecturer, Dept. of Electrical and Electronics Eng.
- 1993 to 1997 Jomo Kenyatta University of Agric. & Technology (J. K. U. A. T), Nairobi, Lecturer
- 1988 to 1993 Moi University Eldoret, Lecturer
- 1979 to 1988 Kenya Institute of Mass Communication, Lecturer
- Ministry of Information & Broadcasting, Nairobi.
- 1976 to 1979 Govt. Polytechnic Latur (India), Lecturer
- 1975 to 1976 Govt. College of Eng. Amravati (India), Lecturer
- 1972 to 1975 Govt. College of Engineering, Pune (India), Asst.Lecturer

## 10. EXPERIENCE

- **Teaching:** More than 40 years out of which 12 years in University of Nairobi Courses taught to undergraduate students; Analogue Electronics, Digital Electronics, Physical Electronics, Electromagnetic Theory, Telecommunications, Electrical Materials, Electrical Measurements, Electric Circuit Theory,
- **Industrial:** At Bombay Electric Supply & Transport (BEST) Company, 1<sup>st</sup> April to 30<sup>th</sup> June 1975. Gained experience in Generation & Distribution of Electric Supply and Maintenance of High Power Electric Equipment.
- **Research**
  - Topic of Ph.D. research **“Analysis of Arbitrarily Shaped Microstrip. Patch Antenna”**
  - Supervisor of a postgraduate student at J.K.U.A.T. for his thesis on **“Design and Implementation of a microstrip antenna using FDTD method.”**

## 11. TRAINING

- **“Implementers Training for ISO 9001: 2008 Standard for Middle Level Management”**, 8<sup>th</sup> – 9<sup>th</sup> June, 2011 University of Nairobi.
- **“Scientific communication and publishing”** University of Nairobi, 12<sup>th</sup> to 16<sup>th</sup> April 2010 Organised by Training Centre in Communication (TCC).
- **“Higher Education Science and Curricular Reforms: African Universities Responding to HIV/AIDS”**, 8<sup>th</sup> to 10<sup>th</sup> May, 2007, Organised by UNESCO and African Women in Science and Engineering (AWSE).
- Workshop on **“Patent Information”** organised by European Patent Office (EPO), African Regional Industrial Property Office (ARIPO) & Kenya Industrial Property Office (KIPO), University of Nairobi, 16<sup>th</sup> to 18<sup>th</sup> November 1998.

## 12. ADVANCED COURSES

- **“Symposium on Solid State Physics”** Bhabha Atomic Research Centre, Mumbai 1<sup>st</sup> to 4<sup>th</sup> January 1991.
- **“Role of Applied Physics in rural development”** Nairobi University, Aug. 1991.
- **“Microcomputers in Physics”** I.I.T. Madras. 9<sup>th</sup> to 13<sup>th</sup> January 1989
- **“Instrumentation & Control”** Govt. Polytechnic Kota (Rajasthan) 2<sup>nd</sup> to 20<sup>th</sup> May 1977
- **“Instrumentation & Process Control”** Fertilizer Corporation of India, Gorakhpur 1(U.P.) 18<sup>th</sup> to 30<sup>th</sup> July 1977.
- **“Television Engineering”** Indian Institute of Technology (I.I.T.) Madras 7<sup>th</sup> to 18<sup>th</sup> June 1976.
- **“Industrial Electronics”** K.R. Engg. College Surthkal (Karnatak) 8<sup>th</sup> to 20<sup>th</sup> Dec. 1975. **“Organisation & Logical Design of Digital Computer”** Indian Institute of Science, Bangalore 24<sup>th</sup> November to 6<sup>th</sup> December 1975.

## 13. OTHER ASSIGNMENTS

- Coordinator of Examinations Time Table Committee of the Faculty of Engineering.
- Examinations Coordinator at the Department of E. & E. Engineering.
- Examiner for two (2) M.sc. Students’ Thesis, University of Nairobi
- Supervising final year B.Sc. students for their projects.
- During my service in the Department of Electrical & Electronics Engineering, University of Nairobi since 18–12-1997, apart from regular teaching, conducting practicals and supervising final year students for their project work, the following additional activities were undertaken:
  - Active participation in Departmental and Faculty Board Meetings.
  - Processing of Examination results.
  - Co-ordinator of 4<sup>th</sup> term.
  - Supervising students attached to industrial training.
  - Member, Board of Examiners for postgraduate students
  - examined Ms. K. Kabere & Mr. J.M.Karanja.
  - Departmental representative in workshop on “Patent Information”.

## **EXTRA CURRICULAR ACTIVITIES:**

- Related to Hindu Religious Education (H.R.E) in Kenya
  - Preparation of Syllabi.
  - Training Teachers.
  - Curriculum implementation in schools.
  - Working with Kenya National Examinations Council.
  - Co-author of several pupils' Text books (Primary & Secondary).
  - Worked as Convenor of H.R.E. in Hindu Council of Kenya (HCK) for more than 10 years.
- Related to HIV / AIDS & Health Education in Kenyan Schools:
  - "Training Curriculum and Modules Development" Sponsored by UNICEF 6<sup>th</sup> to 17<sup>th</sup> Dec.1993, Nairobi.
  - "Aids Education Curriculum Design & Book Editing Workshop" sponsored by UNICEF 14<sup>th</sup> to 18<sup>th</sup> February, 1994. Nairobi.
  - Life Skills Project at K.I.E. Ministry of Education 1998-99 Nairobi.
  - "Primary School Action for Better Health" (PSABH) Programme, Organised by Centre for British Teachers (CfBT), 1998/99, in Bondo District, Lake Victoria Region.
  - "HIV / AIDS Guidance & Counseling for P.W. A. s" organised by (CfBT) at Stem Hotel Nakuru.
- WORKSHOP PARTICIPATION:
  - 30 WORKSHOPS of HRE at K.I.E, Nairobi.
  - 10 WORKSHOPS on HIV / AIDS jointly organised by Govt. of Kenya & UNICEF.
  - 5 WORKSHOPS organised by Centre for British Teachers (CfBT).
    - § Life Skills
    - § Conflict Resolution
    - § Guidance and Counselling for people affected with HIV /AIDS.
    - § UNESCO workshop on "Higher Education Science & Curricular Reforms: African Universities Responding to HIV/AIDS" 8<sup>th</sup> to 10<sup>th</sup> May 2007
- CONFERENCE PARTICIPATION:
  - Friends of India Society International, 1982-Mumbai (INDIA)
  - All Africa Hindu Conferences in 1988 and 1991 in Nairobi,( Kenya).
  - "AIDS Education project" at Narumoru Tourist Lodge, 12<sup>th</sup> to 23<sup>rd</sup> April 1994.
  - "Afro-Hindus Studies" at University of Nairobi 1996.
  - "Faith and Conservation" at Hotel Al – Wahat in Mombasa. 22<sup>nd</sup> and 23<sup>rd</sup> June 1996.
  - "Oriental Religions in Kenya" by IAHR, 27<sup>th</sup> to 30<sup>th</sup> July 1999, Amani Conference Centre Nairobi.
  - "Occupational Health and Safety Services" jointly organised by Directorate of Health and Safety Services, Ministry of Labour (Kenya) & Finnish Institute of Occupational Health. 6<sup>th</sup> to 8<sup>th</sup> December 1995.

- NON-TECHNICAL PAPER PRESENTATIONS:
  - “An Ancient Indian Approach for the Prevention and Spread of AIDS” World Hindu Conference in Durban (South Africa) 7th to 10th July 1995.
  - “Interaction of Hindu Faith with other Religions in Kenya” at a Religious Forum, Moi University Eldoret, 20th March 2001.
  - “Development of Hinduism in East Africa” at a Religious Forum, Moi University Eldoret, 21st March 2001.
  - “Comparative Study of Religions” Lecture series to B.Ed students of Moi University, Eldoret.
  - “Hinduism” Lecture series at Bondo Teachers’ Training College, Kenya
  - “Constitutional Conference for South Africa” organised by onrad Adenaur Stiftung of Germany and the Kwazulu-Natal Foundation, 24th & 25th March 1995 at Royal Hotel Durban (South Africa)
- CO-AUTHORED BOOKS:
  - Form IV for Secondary Schools; H. R. E. Text Book Published by Ministry of Education (Govt. of Kenya) and Hindu Council of Kenya (HCK).
  - “Bloom or Doom your Choice” HIV / AIDS Education – a book for Secondary School students, Published by K.I.E. and sponsored by UNICEF Kenya Country Office.
  - Hindu Religious Education (HRE) Primary Schools Standard 6 and Standard 7 Books are Published by Ministry of Education (Govt. of Kenya) and H.C.K.
  - Hindu Religious Education (HRE) Primary Standard 3, 4 and 5 Books are in print.
- EDITORIAL WORK
  - Editor, “Amar Bharati” a quarterly magazine of H.S.S. Kenya.
- MEMBERSHIP OF OTHER SOCIAL ORGANISATIONS
  - Hindu Council of Kenya, Managing Committee Member since 1984
  - Secretary, HIV/ AIDS Awareness Committee for Hindu Council of Kenya.
  - African Association for the Study of Religions (AASR) Kenya.
  - International Centre for Cultural Studies (ICCS) India.
  - Former Chairman, Maharashtra Mandal, Nairobi 2002-2003.

#### **14. REFEREES**

- Prof. B.N.K Njoroge, Principal, College of Architecture and Engineering, UoN.
- Prof. P.M.A. Odira, Dean, School of Engineering, UoN.
- Prof. S.M. Mutuli, Prof. & Chairman, Department of Mechanical and Production Technology
- Prof. V.K. Oduol, Associate Professor, Department of Electrical & Information Engineering, UoN.
- Prof. D.B.O. Konditi, Associate Professor, Multimedia University College, Nairobi.