

CURRICULUM VITAE

PERSONAL INFORMATION

Surname: Amour

Other names: Khamis Othman

Place and date of birth: M/Ladu, Zanzibar, 26th May 1973

Sex: Male

Marital status: Married

Nationality: Tanzanian

Employer: The State University of Zanzibar (SUZA)

Occupation: Lecturer in Physics

Address: P.O.BOX 146, Zanzibar

Email: khamis.amour@suza.ac.tz/khamismwamba52@gmail.com

Tel: +255 777 423224/0657 612395 (Mobile)

EDUCATION

PhD (Physics), University of Dar es Salaam & iThemba LAB (South Africa) (2021).

MSc (Physics), University of Dar es Salaam (2014).

BSc. Ed (Physics/Maths), University College of Education Zanzibar (2006).

Diploma Ed. (Phys/Maths), Nkrumah Teacher's Training College (1998).

Full Technical Certificate (FTC) in Electrical, Karume Technical College (1995).

Certificate of Secondary Education, Fidel Castro Secondary School (1991).

Primary education, Migombani Primary School, Zanzibar (1987).

ACADEMIC POST HELD

1995-2003: Physics Teacher, Bububu Secondary School, Zanzibar.

2006-2010: Physics Teacher, Lumumba Secondary School, Zanzibar.

2010- 2013: Tutorial assistant in Physics, SUZA.

2014- 2020: Assistant Lecturer in Physics, SUZA.

2021- to date: Lecturer in Physics, SUZA.

ADMINISTRATIVE POST HELD

2003-2004: Speaker, Student's Organization, University College of Education Zanzibar (UCEZ).

2004-2005: Vice President, Student's Organization (UCEZ).

2018-2020: Postgraduate students' representative, CoNAS, UDSM.

2022- to date: Focal Person, Curriculum Review and Development Team for HEET Project, SUZA.

2023-to date: Head of Department, Natural Sciences, SUZA.

PROFESSIONAL AFFILIATION

Member: The State University of Zanzibar Academic Staff Assembly (SUZAASA).

Member: Tanzania Physical Society (TPS).

Member: Tanzania Medical Physicists Society.

SUPERVISION OF POSTGRADUATE STUDENTS

1. Kelvin G. Ngowi, Assessment of the Accuracy of Analytical Anisotropic Algorithm (AAA) in Dose Calculation for Cervical Cancer Treatment planned using Varian Eclipse Treatment Planning System. (MSc Physics, Graduated in 2023 - UDSM).
2. Jonas A. Foyer Evaluation of existing treatment protocol in planned dose to locally advanced cervical cancer undergoing Brachytherapy without central tandem applicator at ORCI. (MSc Physics, Graduated in 2023 - UDSM).
3. Asha Nassib Suleiman, Assessing the Impact of Climate change and Variability on Pesticides-usage for Rice farming in Zanzibar. (MSc CNR, Graduated in 2023-SUZA).
4. Hamida Suleiman Ali, Influence of Weather and Oceanographic Parameters to the Growth of Sea Cucumber in Zanzibar. (MSc CNR Graduated in 2024- SUZA).
5. Bilqees Abiola Shittu, Determinants of Local Farmers' access to Climate Change Adaptation Information: A case of ASA Local Government area, Kwara State, Nigeria. (MSc CNR, Graduated in 2024- SUZA).
6. Oswald, Mkanda, Investigation into Effects of Radiation Outside Treatment Field edges for Small Static Fields in Radiotherapy for 6 and 10 MV photon beams. (3rd Year PhD Candidate - UDSM).
7. Massoud, Ali Othman, Development of Beam Shielding System for Imaging Low Linear Energy Transfer Systems in Paediatric Radiology. (3rd Year PhD Candidate- UDSM).
8. Jumaa Dachi Kisukari, Assessment of Equivalent Uniform Dose-based NTCP and TCP for Radiotherapy of Prostate Cancer by Conventional and Hypofractionation Regimens using 3DCRT and IMRT techniques (2nd Year PhD Candidate – UDSM).
9. Mohd Nassor, Assessment of the Radiation Dose Received by Medical Personnel During Fluoroscopy Guided Interventional Procedures at Muhimbili National Hospital. (3rd Year MSc Candidate - UDSM).
10. Rauhiya Hamduni, Evaluation of the local treatment planning protocol for the patient undergoing high dose rate brachytherapy by using a vaginal cylinder applicator at Ocean Road Cancer Institute. (2nd Year MSc Candidate - UDSM).
11. Salma H. Salim, Awareness and Use of Solar Energy as alternative Power Source for Household Level in Zanzibar. (3rd Year MSc CNR Candidate – SUZA).

TEACHING AND PRACTICAL SUPERVISION

- Teaching Undergraduate and Diploma courses.
- Assisting undergraduate Physics practical supervision.

PUBLICATIONS

a. Publications in referred Journals:

1. **K. O. Amour** and N. K. Mohammed. “Heavy Metal Concentration in Soil and Vegetables (*Vigna Unguiculata*) around the Volcanic Mountain of Oldoinyo Lengai Arusha, Tanzania”. *American Journal of Experimental Agriculture* (2015).
2. **Khamis Oth. Amour**, Khamza Maunda and Peter K. Msaki. “Hospital Based Cancer Statistics as an Initial Step towards Establishment of Effective Cancer Intervention in Tanzania”. *International Journal for Innovation and Educational Research* (2019).
3. **Khamis Oth. Amour**, Khamza Maunda, Peane Maleka, Najat K. Mohammed and Peter K. Msaki. “Comparison of Prescribed from Delivered Dose to Cervical Cancer Patients Treated by Theratron Equinox 80 cm SAD at Ocean Road Cancer Institute in Tanzania”, *Tanzania Journal of Science* (2020).
4. **Khamis Oth. Amour**, Khamza Maunda, Peane Maleka, Peter K. Msaki. “Advantages of 3D-CT Based Conformal Radiotherapy Treatment Planning Over 2D Conventional Tera Six Planning for Cervical Cancer Treatment at Ocean Road Cancer Institute”, *International Journal for Innovation and Educational Research* (2020).
5. **Khamis Oth. Amour**, Peane Maleka, Khamza Maunda, Mohammed Mazunga, Peter K. Msaki, “Comparison of Depth Dose Distributions in Water Equivalent Materials for Dose Delivery Accuracy Confirmation Using FLUKA Monte Carlo Code Simulation”, *Tanzania Journal of Science* (2020).
6. Ali O. Masoud, Mwingereza J. Kumwenda, Salum K. Salum, Ahmad M. Jusabani, **Khamis O. Amour**, Emanuel J. Ngaile, Machibya A. Matulanya “Radiation Doses to Patients Undergoing Common X-ray Examinations from Selected hospitals in Dar es Salaam and Zanzibar, Tanzania”, *Tanzania Journal of Science* (2024).
7. Kelvin G. Ngowi, Mwingereza J. Kumwenda and **Khamis O. Amour** “Assessment of the Dose Coverage at the PTV for EBRT for Cervical Cancer Treatment Plan Using AAA Varian Eclipse TPS at Ocean Road Cancer Institute, Tanzania” *Tanzania Journal of Science* (2024).
8. Suleiman, A. N., Kai, K. H., & **Amour, K. O.** “Assessing the Impact of Climate Change and Variability on Pesticides-Usage for Rice (*Oryza sativa* L.) Farming

in Zanzibar". *American Journal of Climate Change*, 13, 664-681(2024).
<https://doi.org/10.4236/ajcc.2024.134030>

9. Jonas A. Foyer, Mwingereza J. Kumwenda, **Khamis O. Amour**, Jofrey J. Masana, "Evaluation of Dose Distribution to the Tumor and Organs at Risk for Cervical Cancer Patients Treated using HDR-ICBT without Central Tandem Applicator: A Single Center Based Experience" *Journal of Brachytherapy* (2024)
10. J.D. Kisukari, M.J. Kumwenda, **K.O. Amour**, E.M. Atalla, S. Adeneye, K. Wijesooriya, T. Ngoma, E. Lugina, J. Mwaiselage, S. Yusuph, S.M. Avery, J. Lehmann, K. Graef, W. Ngwa "Comparison of Dose Measurements using Ionization Chamber and Point Dose from the Treatment Planning System as a Strategy for the Limited-Resource Centers in Patient Specific Quality Assurance" *Medical Physics International Journal*, Vol. 12, No. 2; 2024.

OTHER PUBLICATIONS

a. Thesis and Dissertation

- i. Khamis O. Amour. "*Heavy Metal Concentrations around Volcanic Mountain of Oldoinyo Lengai*" MSc. Physics, University of Dar es Salaam, 2014.
- ii. Khamis O. Amour "*Assessment of the Accuracy of Analytical Anisotropic Algorithm in Dose Calculation for Cervical Cancer Treatment Planning using Varian Eclipse Treatment Planning System*" PhD Physics, University of Dar es Salaam, 2021.

b. Students Text books

- i. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Supplementary Book for Students, Form I, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-41-490-7.
- ii. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Teacher's Guide, Form I, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-9825-2-9.
- iii. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Supplementary Books for Students, Form II, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-41-491-4.
- iv. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Teacher's Guide, Form II, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-9825-3-6.
- v. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Teacher's Guide, Form III, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-9825-4-5.
- vi. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Supplementary Books for Students, Form III, Ministry

- of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-9825-0-5.
- vii. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Supplementary Books for Students, Form IV, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN- ISBN-978-9912-9825-1-2
 - viii. Khamis O. Amour, Issa A. Ali and Juma H. Omar. Secondary School Radio Education Programme, Teacher's Guide, Form IV, Ministry of Education and Vocational Training, Zanzibar, (2023). ISBN-978-9912-9825-5-0.

c. Books Publications

- i. **K.O. Amour** and N. K. Mohammed. *Heavy Metal Concentrations around Volcanic Mountain of Oldoinyo Lengai*. LAP LAMBERT Academic Publisher. OmniScriptum GmbH & Co.KG (2016) ISBN: 978-3-330-00081-0.
- ii. Management and Organization of Science Laboratory in Secondary School, User Guide, Ministry of Education and Vocational Training, 2021.
- iii. Management and Organization of Science Laboratory in Secondary School, Facilitator Guide, Ministry of Education and Vocational Training, 2021.
- iv. Management and Organization of Science Laboratory in Secondary School, User Guide, Ministry of Education and Vocational Training, 2nd Ed. 2024

d. Books editing and Review

- i. Editing Secondary School Physics Books for Form II, Form III and Form IV students, Tanzania Institute of Education (TIE), (2021).
- ii. Reviewing Secondary School Physics Books for Form II, Form III and Form IV students, Tanzania Institute of Education (TIE), (2021).
- iii. Implementation of Competency Based Curriculum for Teaching Physics in Secondary Schools, Facilitator's Guide, Ministry of Education and Vocational Training (2024).
- iv. Implementation of Competency Based Curriculum for Teaching Physics in Secondary Schools, Trainee Module, Ministry of Education and Vocational Training (2024).
- v. Skills in Conducting Physics Practical Works in Secondary Schools, Trainee Module, Ministry of Education and Vocational Training (2024).
- vi. Skills in Conducting Physics Practical Works in Secondary Schools, Facilitator's Guide, Ministry of Education and Vocational Training (2024).

SUZA Curricula Review and Development under my Supervision

1. Bachelor of Science in Nursing (**BScN**), 2023.
2. Doctor of Medicine (**MD**), 2023.
3. Bachelor of Science with Education (**BSc Ed**), 2024.
4. Bachelor of Arts with Education (**BAE**), 2024.
5. Bachelor of Language with Education (**BLE**), 2024.
6. Bachelor of Science in Agriculture General (**BSAG**), 2024.
7. Master of Science in Chemistry (**MSc Chem**), 2024.
8. Bachelor of Science in Computer Science (**BSc CS**), 2024.
9. Bachelor of Information Technology Application and Management (**BITAM**), 2024.
10. Bachelor degree in Bio-medical engineering (**BBME**), 2024.
11. Bachelor of Dentary Surgery (**DDS**), 2024.
12. Bachelor of Science in Environment and Coastal management (**BSc ECOM**), 2024.
13. Bachelor of Science in Urban Studies (**BAUS**)

WORKSHOPS AND CONFERENCES ATTENDED

1. Training programme on Mastering Training & Curriculum Design organized by International Malaysian Training Center (IMTC) from 10th to 14th March 2025 in Kuala Lumpur, Malaysia.
2. Training Workshop for Curriculum Focal Persons on “Understanding the New Curriculum: Overview of Key Changes in the New Curriculum” in HEET Project organized by Ministry of Education, Science and Technology (MoEST) at COSTECH Dar es Salaam from 21st to 24th May, 2024.
3. Training workshop for the alignment of teacher education programmes in universities with education and training Policy 2014 (2023 Edition) and curricula for Basic and Teacher Education at NACTIVET Dar es Salaam, November, 2024.
4. Training Workshop for University Heads of Departments organized by Tanzania Commission for University (TCU) at Magadu, Mzinga Corporation, Morogoro on 23rd – 24th March, 2023.
5. Radiation Interaction and Detection (Virtual, zoom platform), organized by Southern African Institute for Nuclear Technology and Science (SAINTS), held in Cape Town South Africa (iThemba LABS), 12th to 16th April 2021.
6. Radiological Protection (Virtual, zoom platform), organized by Southern African Institute for Nuclear Technology and Science (SAINTS), held in Cape Town South Africa (iThemba LABS), 07th to 10th May 2021.
- 7.

8. SCCOPET Training Workshop for e-Learning Expert held at State University of Zanzibar (SUZA) at Maruhubi Campus, from 22nd to 24th February, 2023
9. Global Health Catalyst Summit in Tanzania held at Kunduchi Beach Resort, Dar es Salaam, 1st to 4th April 2019.
10. Radioisotope Production, Radiochemistry, Radiophysics and Applications, held in Cape Town South Africa (iThemba LABS), 6th to 7th November 2019.
11. Nuclear Physics and Materials, Arusha, Tanzania, held at Nelson Mandela African Institute of Science and Technology (NM-AIST), 6th to 17th July 2015.
12. Entrepreneurship for scientists and Engineers in Tanzania, held at University of Dar es Salaam, 25th to 29th July 2016.
13. TEAL-AGRIKNOWLEDGE and RESEARCH4LIFE workshop held at the College of Business Education, Dar es Salaam, Tanzania, 27th -28th November 2018.
14. Third country training for Africa on ASEI&PDSI Approaches in Mathematics and Science Subjects, held in the Centre for Mathematics, Science and Technology Education in Africa (CEMASTE), Nairobi, Kenya, 6th to 31st October 2008.
15. The 6th International Scientific Writing Workshop, Zanzibar, 26th to 27th March 2015. Student's leadership skills held at University College of Education Zanzibar, 19th to 20th June 2004.

OTHER ACTIVITIES:

- Conducting Workshop on “Training Laboratory Custodians in Laboratory Management” held at Jang’ombe HUB, Zanzibar (2024).
- Participation in the research of “Needs assessment on difficult topics in mathematics, science and English subjects in Zanzibar Upper Primary Schools”. (2015).
- Conducting Workshop on “The use of Teaching and Learning Materials in Physics, held at Michakaini Teachers Centre”, Zanzibar (2014).
- Participation in the writing of Secondary School Teachers In-service Materials in Physics. Organized by National Teacher Resources Centre, Zanzibar (2009).

HOBBIES


- Reading Articles.
- Developing educational materials and resources
- Visiting science museums and research facilities
- Participating in research activities.
- Participate in social development activities.
- Exploring the visual representations of scientific concepts

REFEREES:

1. Prof. Najat Kassim Mohammed.
Tanzania Atomic Energy Commission,
Dodoma, Tanzania (TAEC).
Email: njkassim@yahoo.com
Mobile: +255 777 693229.
2. Dr. Khamza K. Maunda.
Department of Clinical Oncology,
ORCI, Dar es Salaam, Tanzania.
Email: khamza.maunda@yahoo.com
Mobile: +255 777 844350.
3. Dr. Mohd S. Mazunga.
University of Dar es Salaam, Tanzania.
Email: mazungam@yahoo.com
Mobile: +255 713 858990.
4. Dr. Peane P. Maleka
iThemba LABS, Cape Town South
Africa.
Email: pmaleka@tlabs.ac.za
Mobile: +27 72 384 3873.

Certification

I, the undersigned hereby certify that to the best of my knowledge and belief, this profile correctly describes qualifications, my experience and myself.

Signature: 

Date: 09/02/2025

Khamis Othman Amour