

Dr. Jacob Ismail Irunde



Dr Irunde is a lecturer at Mkwawa University College of Education, A constituent college of University of Dar es Salaam in Tanzania. He did Bachelor of Education in Science and Master of Science in Mathematical Modeling at University of Dar es Salaam and PhD in Applied Mathematics at Nelson Mandela African Institution of Science and Technology. He is a Mathematician whose research interest is Applied Mathematics particularly epidemiological Modeling. In Epidemiological Modeling he models and analyzes dynamics of infectious diseases to predict the behavior of a particular disease, determine which parameters drive the disease and design control strategies to conclude the effect of one control strategy or combined strategies in eradicating the disease. At Mkwawa University College of Education, he teaches courses in mathematics which include: Ordinary differential equations, Linear Algebra I, Calculus of several variables and Complex Analysis I. Before joining Mkwawa University College of Education, Irunde worked shortly as a mathematics teacher in Secondary School in Tanzania.

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Dr. Jacob Ismail Irunde's CV

Area of specialization and Research interest

Mathematical Epidemiology (Disease Modeling at Population level and In-host dynamics)

Selected Publications

Irunde, J. I., Luboobi, L. S., & Nkansah-Gyekye, Y. (2016). Modeling Tobacco Smoking Effect on the HIV infection of CD4+ T-cells. *Asian Journal of Mathematics and Applications*, 2016.

Irunde, J. I., Luboobi, L. S., & Nkansah-Gyekye, Y. (2017). Modeling Tobacco Smoking Effect on HIV Antiretroviral Therapy. *Journal of Mathematical and Computational Science*, 7(6), 1046-1073.

Irunde, J. I., Luboobi, L. S., & Nkansah-Gyekye, Y. (2017). Modeling Tobacco Smoking Effect on HIV Antiretroviral Therapy and Stability Analysis. *Asian Journal of Mathematics and Applications*, 2017.