#### **DEPARTMENT OF MATHEMATICS**

Name of Faculty/Staff: Dr. Mobisa Benson, PhD Designation/Rank: Lecturer Laikipia University: School of Science and Applied Technology Email: bmobisa@laikipia.ac.ke

#### **Educational Background**

- PhD (Applied Mathematics), Masinde Muliro University of Science and Technology, Kenya (2020)
- MSc (Applied Mathematics), Kenyatta University, Kenya (2008)
- Bachelors in Education (Arts), (2<sup>nd</sup> Class Upper Division), Kenyatta University, Kenya (1997)

# Brief Auto-biography of the Faculty/Staff

Dr. Mobisa Benson has a teaching experience of 20 years in the area of Mathematics. His research interest lies in mathematical modelling and has conducted research in HIV/AIDS modelling. In July 2019 he participated in a Biophysics conference on: *"Exploring Biophysics Diversity for sustainable industrial and economic development"*, held at Masinde Muliro University of Science and Technology, and presented an article titled *"Modelling in vivo HIV dynamics with antiretroviral treatment"*. His research titled: *"An Immuno-Epidemiological Model for HIV/AIDS Incorporating Viral and Cellular Transmission with Antiretroviral Treatment"*, was among the research topics awarded NRF funding.

# **Selected Publications**

- 1. Modelling In Vivo HIV Dynamics Under Combined Antiretroviral Treatment, Vol. 2018, *Journal of Applied Mathematics*, doi.org/10.1155/2018/8276317.
- An Immuno-Epidemiological Model for HIV/AIDS Incorporating Viral and Cellular Transmission with Antiretroviral Treatment, *Journal of Applied Mathematical Sciences*, doi.org/10.12988/ams.2019.910142.

# **Research Interest**

Mathematical Modelling