CURRICULUM VITAE

A. GENERAL INFORMATION

1. **Name (SURNAME, Other Names):**	OLAOSEBIKAN Mutiu Lawal
2. **Date and Place of Birth:**	July 14, 1980/ Ejigbo
3. **Gender**	Male
4. **Nationality:**	Nigerian
5. **State of Origin**:	Osun State
6. **Local Government Area**:	Ejigbo
7. **Marital Status:**	Married
8. **Names and Ages of Children**:	Olaosebikan Dahimah Opeyemi (19 years), Olaosebikan Toyyib Okikiola (16 years), Olaosebikan Hassanah Adedolapo (12 years), Olaosebikan Hussein Ademola (12 years), Olaosebikan Al-amin Olabanji (5 years)
9. **Name and Relationship Of Next Of Kin With Telephone Number:**	Olaosebikan Halimat Funmilayo (Wife) 08169751271
10. **Permanent Address:**	152, Adj Iya-Owode, Zone 4, Ilupeju Com. Ede, Osun State.
11. **E-mail Address:**	mutiu.olaosebikan@uniosun.edu.ng
12. **Registration with Research Gates: Yes/No**	Yes
13. **If Yes, Provide the Link:**	https://www.researchgate.net/profile/Mutiu-Lawal-Olaosebikan
14. **If No, Why:**	Not Applicable
15. **Registration with Google Scholar: Yes/No**	Yes
16. **If Yes, Provide the Link**	https://scholar.google.com/citations?user=cPkA2k0AAAAJ&hl=en
17. **If No, Why:**	Not Applicable
18. **Cell Phone Number:**	**08066409511**
19. **College/Faculty/Unit:**	Science, Engineering and Technology (SET), Basic and Applied Sciences
20. **Department:**	Mathematical Sciences
21. **Position on First Appointment**	Lecturer II
22. **Present Position and Salary (Grade and Step):**	CONUASS 3

23. **Date of Present position:** 06/12/2024

24. **Is Your Appointment Confirmed**: No

25. **Why:** New Appointment

B. EDUCATIONAL BACKGROUND

1. **Educational Institutions Attended with Dates:**

1. Osun State University	2021-2024
2. Osun State University	2019-2021
3. Ladoke Akintola University of Technology	2009-2011
4. University of Ibadan	2000-2005

2. **Academic and Professional Qualification with Dates/Issuing Authority and Class of Degree/Grade Level must be indicated**

i. Ph.D. (Mathematics),	2024
ii. M.Sc. (Applied Mathematics, Distinction),	2021
iii. M.B.A. (Marketing Option),	2011
iv. B.Sc. (Mathematics, Second Class Lower Division),	2005

3. **Other Relevant Qualifications** **NIL**

4. **Honors, Awards and Distinctions:**

i. Most Resourceful Student**;** Undergraduate 2005

5. **Research Fellowship with Dates** **NIL**

C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM:

a. Teacher, Dr Omar Juma Secondary School, Republic of Tanzania (Scheme under Nigeria Min. Of Foreign Affairs),	2012-2015
b. Adebost consulting & Micro-Finance, Osogbo.	2010-2012
c. Flourish Micro-Finance Bank, Lagos Island. Lagos State.	2008-2010
d. Adebost consulting & Micro-finance, Osogbo.	2007-2008.
e. Teacher, School for handicapped, Birnni Kebbi, Kebbi state (NYSC)	2005-2006

D. WORK EXPERIENCE IN OTHER UNIVERSITIES:

The Federal Polytechnic EDE (Part-Time Lecturer, Department of Statistics) 2016 – 2021.

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY:

Department of Mathematical Sciences (Lecturer II) 2024-TILL DATE

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE **NIL**

G. MEMBERSHIP OF PROFESSIONAL BODIES

i. Member - Nigeria Association of Mathematical Physics (NAMP) 2018 – Till Date

ii. Member - Nigeria Mathematical Society (NMS) 2025 – Till Date

iii. Member - - Mathematics Association of Nigeria (MAN) 2025 – Till Date

H. SERVICE

i. University Osun State University, Osogbo NIL

ii. Community NIL

iii. National NIL

iv. International **Reviewer**

1. Bulletin of the National Research Centre, Springer (2023) Gyamerah, S. A., Mensah, A. A., Asare, C., & Dzupire, N. (2023). Improving Mortality Forecasting Using a Hybrid of Lee–Carter and Stacking Ensemble Model. Bulletin of the National Research Centre, 47(1), 158.

2. Results in Control and Optimization, Elsevier (2024) Bangia, A., & Bhardwaj, R. (2024). Fractional-Ordered Adams–Bashforth–Moulton (FABM) Method for PIηDλ Controllers' Numerical Simulations for Direct Current (DC) Motors in Electric Vehicles (EVs). Results in Control and Optimization, 17, 100466.

3. In-depth Analysis of Female Students' Enrollment Dynamics in Tanzanian Mathematics Master's Programs (in Review) Safina Karunde; Neema Mduma; Verdiana Masanja.

I. <u>COURSES ASSISTED DURING THE CURRENT ACADEMIC SESSION:</u>

S/N	COURSE CODE	COURSE TITLE	COURSE UNIT
1	MTH 101	Elementary Mathematics (Algebra and Trig.)	**02**
2	MTH 105	Elementary Mathematics for Biological Sciences 1	**02**
3	MTH 201	Mathematical Method 1	**02**
4	MTH 202	Elementary Differential Equation	**02**
5	MTH 402	General Topology	**03**

J. GRADUATE STUDIES SUPERVISION (if any): Indicate **NIL**

K. <u>RESEARCH AND PUBLICATIONS</u>:

1. Tawakalit, A.A., Helen, O.E., Olumuyiwa, J.P., Festus, A.O., Kayode, O. **Olaosebikan, M.L**. *Modelling and Optimal Control Analysis of Typhoid Fever*.J.Math.Comput.Sci.11 (2021), No.,6666-6682.https://doi.org/10.28919/jmcs/6262.
2. **Olaosebikan,M.L**. ,A.A.Victor, O.A.Uwaheren. T.A.Ayoola, M.O.Ajisope (2021) *Solution of an SIR Infectious Disease Model by Differential Transformation Method*. JOURNAL OF SCIENCE TECHNOLOGY AND EDUCATION atbuftejoste. com/index.php/joste/article/view/1418(2021) Vol9, No3.www. arbuftejosle.com.
3. MO Ajisope, AY Akinyele, CY Ishola, AA Victor, **ML Olaosebikan**, T Latunde, Application of Lease Square Method for Solving Volterra Fractional Integro-Differential Equations based on Constructed Othogonal Polynomials (2021) . gy –50– http://www.akamaiuniversity.us/PJST.htm
4. Oyedepo T., Ishola C.Y, Uwahenren O.A., **Olaosebikan M.L,** Ajisope M.O., Victor A.A "*Least square bernstein Method for solving Fractional Integro-Differential Equation*" Journal of Science Technology and Education (2022)10(1). www.atbuftejoste.com/index.php/joste/article/ v. iew/1524.
5. Bashiru K. Adekunle , Ojurongbe T.Adetola , **Olaosebikan M. Lawal** ,"*Stochastic Model Analysis of the Impact of Media Campaign on Transmission of COVID – 19 Epidemics* (My MSc. Thesis)" Jambura Journal of Probability and Statistics. 1(2): 179-191 (2022).DOI: https://doi.org/10.34312/jjps.v3i2.15878.
6. Christie Yemisi Ishola, Musiliu Tayo Raji , **Mutiu Lawal Olaosebikan** , Mfon Okon Etuk *"Reconstructed variational iteration algorithm via third-kind shifted Chebyshev polynomials for the numerical solution of seventh-order boundary value problems" Mathematics and Computational Sciences* (2022).pp: 55-63 DOI:10.30511/mcs.2022.1974430.10926 ISSN:2717-2708. http://mcs.qut.ac.ir
7. Kehinde Adekunle Bashiru, Mutairu Kayode Kolawole ,**Mutiu Lawal Olaosebikan**.*Analysis and Simulation of Mathematical Model of COVID-19 Incorporated with Vaccination and Media Induced Fear* (2023). TRENDS IN SCIENCES 2023; 20(4) .https://doi.org/10.48048/tis.2023.4600.
8. Bashiru, K.A, Ojurongbe, T.A, Kolawole, M.K, Aduroja O. O**, Olaosebikan, M.L**, Adeboye, N.O and Afolabi, H.A. *Stability Analysis of HIV/AIDS Epidemic Model in the Presence of Vertical Transmission and Treatment* (2023). UNIOSUN Journal of Engineering and Environmental Sciences. DOI: 10.36108/ujees/3202.50.0141.
9. Taiwo A. OJURONGBE, Ojo O. ADUROJA, **Mutiu L. OLAOSEBIKAN**, Asimiyu O. OLADAPO, Abiodun . OLATUNJI, Aasim A. DHIKRULLAH and Kehinde. A BASHIRU. *Behavioral Analysis of SEIR Epidemic Model with Control Strategies* (2023). Adeleke University Journal of Engineering and Technology www.aujet.adelekeuniversity.edu.ng.
10. Kehinde.A Bashiru ,*, Ojo O.Aduroja **, Mutiu L. Olaosebikan**, Asimiyu O. Oladapo, Abiodun F. Olatunji, Aasim A. Dhikrullah and Mutairu K. Kolawole.. *Analysis and simulation of HIV/AIDS transmission dynamics and control strategies* (2023). Fountain Journal of Natural and Applied Sciences DOI: 10.53704/fujnas.v12i1.441.
11. VA Adekunle, A Yekeen, ML Olaosebikan, M Raj. Application of Differential Transform for Solving Typhoid Fever Model
12. Kehinde Adekunle Bashiru, Mutairu Kayode Kolawole, Taiwo Adetola Ojurongbe, **Mutiu Lawal Olaosebikan**, Nureni Olawale Adeboye, Habeeb Abiodun Afolabi . *Sensitivity Analysis of Typhoid Fever model with Saturated Incidence rate* (2024) Journal Mathematical and computational Science.https://doi.org/10.30511/mcs.2023.1988295.1107.
13. **ML Olaosebikan**, MK Kolawole and KA Bashiru, *Transmission Dynamics of Tuberculosis Model with Control Strategies* (2023). Jambura Journal of Biomathematics. https://doi.org/10.37905/jjbm.v4i2.21043.
14. **Mutiu. L. OLAOSEBIKAN*** and Mutairu. K. KOLAWOLE. *Mathematical Model of Tuberculosis Transmission Dynamics with Vaccination. (2024).* Ethiopian J Nat Comp Sci http://journal.uog.edu.et/index.php/EJNCS.
15. **Mutiu Lawal Olaosebikan,** Mutairu Kayode Kolawole, Adedapo Ismiala Alaje, Asimiyu Olalekan Oladapo, Ibrahim Adeshola Adediran**.** Mathematical modelling of hepatitis B virus dynamics

evaluating the role of vaccination and metabolic factors in disease progression (2025). Quality & Quantity https://doi.org/10.1007/s11135-025-02411-4

16. **Mutiu , Lawal Olaosebikan,** Asimiyu Olalekan Oladapo, Muideen Odunayo Ogunniran. Analysing Cholera-Measles Epidemics of a Fractional-Order Model with Preventive Strategies Using Laplace Adomian Decomposition Method (2026). Journal differential. https://doi.org/10.35508/jd.v8i1.24154
17. **Mutiu Lawal Olaosebikan**, Joseph Adeleke Adedeji, Olatunji Abiodun Funsho, Ibrahim Adeshola Adediran, Timothy A Ogunleye. MATHEMATICAL ANALYSIS OF A TUBERCULOSIS CONTROL MODEL WITH VACCINATION, TREATMENT, AND PUBLIC AWARENESS VIA THE LAPLACE ADOMIAN METHOD(2026). UNIOSUN journal of Engineering and Environmental Sciences. https//journals.uniosun.edu.ng/ujees/issue/current
18. **Book co-authored** :(Essential Mathematics for University Students)

L. THESIS DISSERTATIONS:

a. Transmission Dynamics of Tuberculosis Model with Control Strategies. This is a published thesis for Ph.D. (2023)

b. Mathematical Model of Tuberculosis Transmission Dynamics with Vaccination. This is a published thesis for Ph.D. (2024)

c. Stochastic and Dynamics analysis of Covid – 19 Pandemic with media campaign. This is a published Thesis for the Award of Master of Applied Mathematics Degree (2021)

d. An Application of Matrices to Leontief Input – output Model. A research project for Award of B.sc Mathematics, (2005) Unpublished

M. CURRENT RESEARCH ACTIVITIES:

(i) Funded Research **NIL**

(ii) Non-funded/Self-sponsored Research

(a) ML Olaosebikan, MK Kolawole and AF Adebisi **"**Dynamical Analysis of a Tuberculosis Transmission Model with therapeutic effect evaluation

Submitted to: Iranian Journal of Science (Springer)

N. CONFERENCE AND WORKSHOPS ATTENDED WITH DATES:

(i) The Nigerian Association of Mathematical Physics (NAMP) 2025

(ii) Nigeria Mathematical Society (NMS) 2024

O. EXTRA CURRICULAR ACTIVITIES:

Reading, Teaching and Writing

P. ANY OTHER RELEVANT INFORMATION:

Mathematical Modeling, Computational Biology, Data Analysis, Modeling and Simulation

Q. SUMMARY OF CONTRIBUTION TO KNOWLEDGE:

Modelling of infectious diseases has also given me the opportunity to suggest solutions on how to curb the spread of such diseases in specific environments.

My research finding will also give meaning to researches in the life sciences and establishing some important designs in the area of Mathematical Epidemiology.

REFEREES:

A. Prof. Ajibade Bayo lawal,
Faculty of Nursing Science, College of Health Sciences.
Ladoke Akintola University of Technology, Ogbomoso
Tel: 08034067021.

B. Ass. Prof. M.K Kolawole,
Faculty of Applied Sciences,
Department of Mathematical Sciences
Tel: 08167756777

C. Dr. Ojo Thompsom Olabode,
Faculty of Science,
Department of Statistics,
Federal Polytechnic Ede. Osun State.
Tel: 08034706884

OLAOSEBIKAN Mutiu Lawal _____

Name **Signature and Date**