

Research and Community Services Undertaken during the 2024/2025 Academic Year by Members of Academic Staff

1. **Chibololo, J. S.** (2025). Islamic Perspectives on Age of Consent: Analytical Study in the Contemporary World. *East African Journal of Traditions, Culture and Religion*, 8(1), 1-13. [Completed]
2. **Chibololo, J. S.** (2024). *A Simplified Fiqh of Ibadat (Worship)*. Muslim University of Morogoro. [Completed]
3. **Hemed, A.** (2025). To Assess the Risk Management Strategies within African Supply Chain: A Case Study of Tanzania. *Asian Journal of Management Entrepreneurship and Social Science*. 5(2), 425-438. [Completed]
4. **Hemed, A.** (2025). The Effect of Artificial Intelligence on Supply Chain Performance in Africa: A Tanzanian Case Study. *Asian Journal of Management Entrepreneurship and Social Science*. 5(2), 49-62. [Completed]
5. **Hemed, A.** (2025). Exploring the Effect of Circular Economy Practices on Supply Chain Sustainability in Africa: A Case of Tanzania. *Saudi Journal of Economics and Finance*. 9(4), 145-153. [Completed]
6. **Anami, A.** (2024). Ethical Entrepreneurship: Islamic Financial Principles for Small and Medium Enterprises. *Advanced Research and Reviews*, 18(02), 59-66. [Completed]
7. **Anami, A.** (2024). Zakah as Social Responsibility for Small and Medium Enterprises (SMEs). *International Journal of Scholarly Research and Reviews*, 4(1), 9-16. [Completed]
8. **Anami, A. K.** (2024). *Navigating Islamic Banking and Finance*. AKINIK Publication. [Completed]
9. **Anami, A. K.** (2024). Financial inclusion through Islamic financial instruments: A catalyst for small and medium enterprises (SMEs). *Open Access Research Journal of Multidisciplinary Studies*, 7(1), 134-141. [Completed]
10. **Anami, A. K.** (2024). Fintech innovations in Islamic finance: Revolutionizing financial services for the digital age. *International Journal of Research Publication and Reviews*, 5(7), 2911-2917. [Completed]

11. **Anami, A. K.** (2025). Interest-free banking: a pathway to ethical and inclusive financial systems. *Faculty of Economics Scientific Magazin*. 7(7), 143-173. [Completed]
12. **Anami, A. K.** (2024) Islamic Finance and Blockchain: Exploring the Future of Transparent and Secure Transactions. *International Journal of Research Publication and Reviews*. 5(7), 2924-2929. [Completed]
13. **Anami, A. K.** (2024). Green Finance and Islamic Banking: Aligning Principles for Sustainable Development. *International Journal of Research Publication and Reviews*. 5(7), 2918-2923. [Completed]
14. **Anami, A., & Jonas, A.** (2025). Islamic economics in a changing world: Adapting principles to contemporary economic challenges. *Azka International Journal of Zakat & Social Finance*. 6(1), 17-28. [Completed]
15. **Nyuni, J. & Amanzi, M. O.** (2024). Sifa za Kiambishi Kanushi katika Kitenzi cha Kiswahili. *Jarida la Matumizi ya Kiswahili*, 1(1), 37-52. [Completed]
16. **Amanzi, M. O.** (2024). Miktadha ya Kisintaksia Itokanayo na Makusudio ya Mawasiliano katika Uibuzi wa Miundo Virai Kubalifu ya Kiswahili. *African Journal of Language Studies*, 1(1), 66-76. [Completed]
17. **Hamisi, R.** (2025). Analysis of Household Expenditure Patterns in Morogoro Region: Insights for Estimating Market Size and Developing Retail Strategies. *East African Journal of Business and Economics*, 8(1), 378-389. [Completed]
18. **Hamisi, R.** (2025). The Contribution of Urban Livestock Keeping to Food Security in Arusha City: A Case Study of the Three Wards: Daraja Mbili, Sombetini and Sokoni One. *International Journal of Research and Innovation in Social Science*, 9(09), 55-66. [Completed]
19. **Koleleni, Y. I.** (2025). Assessment of Mineral Compositions in Ginger Roots Using Atomic Absorption Spectroscopy (AAS). *Asian Journal of Food Research and Nutrition*, 4(1), 86-100. [Completed]
20. **Koleleni, Y. I.** (2025). Assessment of Heavy Metals (Mercury and Arsenic) Levels in Lemon Grass at Kihonda and Mafisa (Viwandani) in Morogoro, Tanzania. *Journal of Materials Science Research and Reviews*, 8(1), 52-63. [Completed]

21. **Koleleni, Y. I.** (2025). Design, Construction, and Evaluation of a Passive Solar Dryer for Sustainable Food Preservation. *Asian Journal of Research and Reviews in Physics*, 9(1), 40-56. [Completed]
22. **Koleleni, Y. I.** (2025). Relationship between Temperature and the Magnetic Strength. *Asian Journal of Research and Reviews in Physics*, 9(1), 57-69. [Completed]
23. **Koleleni, Y. I.** (2025). Solar Cooker: Design, Construction and Performance. *Journal of Materials Science Research and Reviews*, 8(1), 61-73. [Completed]
24. **Koleleni, Y. I.** (2025). Impact of Temperature on the Viscosity of Raw and Boiled Honey from Tabora, Tanzania. *South Asian Research Journal of Natural Products*, 8(1), 61-73. [Completed]
25. Kileo, A. A. & **Koleleni, Y. I.** (2024). *Ufahamu Kuhusu Mionzi, Faida, Madhara na Mbinu za Kujikinga*. Mkuki na Nyota Publishers. Dar es Salaam [Completed]
26. **Koleleni, Y. I.** (2024). X-Ray and Gamma Ray Spectrometers for Environmental Studies in Tanzania. B. P International. [Completed]
27. Susilawati, S. A., & **Hamisi, S. H.** (2025). Integrating Technology in Grade 10 Geography: Enhancing Basic Concepts with Geographic Information Systems. *Assyfa Learning Journal*, 3(1), 69-84. [Completed]
28. Ndunda, M., **Lyeme, H.**, & Kasing'a, F. K. (2024). Examination of Tanzania Secondary School Mathematics Teacher Education Program Alignment with Knowledge, Skills, and Competencies for the Fourth Industrial Revolution and Beyond. In *Mathematics Teacher Training and Development in Africa: Trends at Primary and Secondary School Levels* (pp. 149-169). Cham: Springer Nature Switzerland. [Completed]
29. Shinzeh, J. K., & **Lyeme, H. A.** (2025). An effective branch and bound method to find the optimal solution of an assignment problem with maximization objective function. *Mathematics Open*, 4, 2550004. [Completed]
30. Katalambula, L. K., **Lyeme, H. A.**, & Kahuru, J. S. (2024). Linear Programming Model and Dietary Plan for HIV-Infected Children Ages 6-9 Years Using Locally Available Foods in Simiyu, Tanzania. *International Journal of Applied Mathematics and Informatics*. 18,1-7 [Completed]
31. Shinzeh, J. K., & **Lyeme, H. A.** (2025). A New Technique on Finding the Project Duration and the Critical Path in Project Management Network Problems with Arrow

- and Predecessor Diagramming Methods. *International Journal of Applied Mathematics, Computational Science and System Engineering*. 7, 204-213 [Completed]
32. Sintawati, M., Sukma, H. H., Mardati, A., **Feruzi, S. M.**, & Satrianawati, S. (2024). Pre-Service Teachers' Pedagogical Knowledge and Attitudes towards Slow Learner Students. *Journal of Education and Learning (EduLearn)*, 18(4), 1117-1124. [Completed]
33. Sintawati, M., Nurrohmah, A., **Feruzi, S. M.**, & Abdurrahman, G. (2025). The Combined Approach of Teaching at the Right Level and Problem-Based Learning to Foster Mathematical Critical Thinking Skills. *International Journal of Learning Reformation in Elementary Education*, 4(03), 315-331. [Completed]
34. **Feruzi, S. M.**, Ligembe, N. N., & Hamad, S. O. (2025). Examining university students' English language loud reading fluency rate in Tanzania. *Journal of Languages, Linguistics and Literary Studies*, 5(1), 50-57. [Completed]
35. Sukma, H. H., Kurniawan, M. R., Sintawati, M., & **Feruzi, S. M.** (2025). Validity and reliability: teachers' pedagogical instrument for identifying sensory-motor abilities in handwriting readiness. *Int J Eval & Res Educ ISSN*, 2252(8822), 4141. [Completed]
36. **Mulema, J.** (2025). Socio-Economic Determinants of Household Cooking-Fuel Choice in Tanzania. *East African Journal of Environment and Natural Resources*. 8(3), 583-589. [Completed]
37. **Mulema, J.** (2025). Postpartum family planning in East Africa: Uptake, unmet need, and the role of couple communication: A Synthesis of recent evidence. *International Journal of Social Science and Education Research*. 7(2), 800-807. [Completed]
38. **Mulema, J.** (2025). A comparative synthesis of the socio-economic and adoption impacts of organic farming on smallholder household in East Africa. *International Journal of Geography, Geology and Environment*. 7(11), 24-32. [Completed]
39. **Mulema, J.** (2025). Family forms and reproductive behaviour: A comparative study of nuclear and extended households in Morogoro region. *International Journal of Geography, Geology and Environment*. 7(7), 16-21. [Completed]
40. **Mulema, J.** (2025). Education and Fertility Outcomes among Women in Morogoro Region: Does Schooling Still Matter?. *International Journal of Population Issues*, 2(2), 86-100. [Completed]

41. **Kitota, A. M.** (2025). An Interpretation Of Qur'an, 22: 73: A Biomedical Perspective. *al-Bunyan: Interdisciplinary Journal of Qur'an and Hadith Studies*, 3(1), 128-139. [Completed]
42. **Kitota, A. M.** (2024). Model of Our Trial: A Construct from the Systematic Review in the Glorious Qur'an, Sunnah and Published Articles in Biomedical Sciences. *LECTURES: Journal of Islamic and Education Studies*, 3(3), 172-184. [Completed]
43. **Kitota, A.** (2024). Unveiling the Miraculous Aspect of Qur'an on Viruses and Their Wonders: A Descriptive Qualitative Study. *AL-IKHSAN: Interdisciplinary Journal of Islamic Studies*, 2(2), 111-119. [Completed]
44. **Kitota, A.** (2024). Eating and Drinking Formula in the Qur'an: A Systematic Study Based on the Integration of Qur'an, Sunnah, Biology and Medicine. *MAQOLAT: Journal of Islamic Studies*, 2(4), 283-294. [Completed]
45. **Kitota, A.** (2024). The Role Played by the Jinn in the Marriage Breakup: an Account from the Qur'an and a Hadith. *Al-Arfa: Journal of Sharia, Islamic Economics and Law*, 2(2), 213-221. [Completed]
46. **Mumbu, A.** (2024). Modeling dynamics and stability analysis of pneumonia disease infection with parameters uncertainties control. *Mathematics Open*, 3, 2430001. [Completed]
47. Ndendya, J., **Mumbu, A.**, David, J., & Bahaye, D. (2025). Mathematical Modeling of Culling and Vaccination for Dog Rabies Disease Transmission with Optimal Control and Sensitivity Analysis Approach. *Clin Mol Epidemiol*, 2. [Completed]
48. **Mumbu, A. R.**, Mlay, G., Alendal, G., Mayige, M., Senkoro, M., & Shaban, N. (2025). Fractional order derivative modelling dynamics of tuberculosis with treatment and nutrition in Tanzania. *Research in Mathematics*, 12(1), 2517440. [Completed]
49. **Mumbu, A. R.**, Mlay, G., Mayige, M., & Shaban, N. (2025). Modeling the transmission dynamics of Two-strain TB with drug-sensitive and drug-resistant in Tanzania: A fractional order approach. *Scientific African*, e02731. [Completed]
50. **Mumbu, A. R.**, Mlay, G., Alendal, G., & Shaban, N. (2025). A deterministic modelling dynamics of tuberculosis infections with PAWN and elementary effects sensitivity analysis. *Nonlinear Science*, 100052. [Completed]

51. **Mumbu, A.**, Shaban, N., & Mlay, G. M. (2024). Investigating the Controllability and Observability of Linear and Non-Linear Epidemiological Systems by Using Kalman's Rank Conditions: A Comparative Study. *Available at SSRN 4867026*. [Completed]
52. **Telekia, F. A.** (2024). WDXRF Analysis of White Colour Pigments Used by Ancient Artists in Central Tanzania Rock Paintings. *Asian Journal of Research and Reviews in Physics, 8(4)*, 1-11. [Completed]
53. **Telekia, F. A.** (2024). Assessment of Concentration Levels and Associated Health Risks of Arsenic, Cadmium, Lead, and Mercury in Selected Green Leafy Vegetables Irrigated by Morogoro River Using Atomic Absorption Spectroscopy. *East African Journal of Environment and Natural Resources, 7(2)*, 35-47. [Completed]
54. **Hamad, A. S.** (2025). Social Linkages of Out-Migrants to their Places of Origin: A Case of Pemba Island, Tanzania. *East African Journal of Education and Social Sciences, 6(1)*, 116-121. [Completed]
55. Engida, H. A., Gathungu, D. K., Ferede, M. M., Belay, M. A., Kawe, P. C., & **Mataru, B.** (2024). Optimal control and cost-effectiveness analysis for the human melioidosis model. *Heliyon, 10(4)*. [Completed]
56. **Mariera, E. O.** (2024). Gestalt Iconicity in EkeGusii Adjective Vowel Lengthening. *Asian Journal of Language, Literature and Culture Studies, 7(3)*, 645-654. [Completed]
57. **Mariera, E. O.**, Barasa, M. N., & Mecha, E. G. (2024). Verbal Duelling in EkeGusii: A Cognitive Interpretation of Wrangle Discourse. *SKASE Journal of Theoretical Linguistics, 21(2)*. [Completed]