

DEPARTMENT OF MATHEMATICS



Name of Faculty/Staff: Dr John Wahome

Designation/Rank: Lecturer

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Educational Background:

- PhD (Applied Mathematics), Institution of study (University of Eldoret), Kenya (2015)
- Masters in. (Applied Mathematics), (Egerton University), Kenya (2002)
- Bachelors in Science Education (Double Mathematics) Egerton University, Kenya (1994)

Brief Auto-biography of the Faculty/Staff

I have an interest in research in the following areas: Fluid Mechanics, Numerical Analysis, Partial differential equations, and especially the application of these in Economics and emerging fields, such as Big Data. I very much appreciate collaborative projects and the mutual learning it provides. My hobbies include painting and writing. And, inevitably, writing some code in C++.

Selected publications

1. Wahome, J., Bitok, J.K., Lonyangapuo, J.K., Nyamai, B.M., and Kweyu, C. "Optimizing a Trapezoidal Open-channel for Least Velocity Fluctuation during Overflow using Mathematical Efficiency Criterion" 2014. Journal of Applied Mathematical Sciences, 8(140): 6979-6987
2. Wahome, J., Bitok, J.K., Lonyangapuo, J.K., Nyamai, B.M., and Kweyu, C. "Using Mathematical Efficiency Criterion to Optimize a Triangular Open Channel for Stable Velocity During Storms" Advances and Applications in Fluid Mechanics, 17(2): 183-193, 2015

3. Kweyu,C., Nyamai, M.,and Wahome, J. "Modified Crank-Nicolson Scheme for the Numerical Solution of the 2-D Coupled Burgers' System " American Journal of Mathematics and Mathematical Sciences, 2(2):185-191, 2013.
4. Kweyu,C., Nyamai, M., and Wahome, J. "Hybrid Crank-Nicolson-Du Fort and Frankel(CN-DF) Scheme for the Numerical Solution of the 2-D Coupled Burgers' System " Applied Mathematical Sciences Journal, 48(8): 2353 - 2361, 2014