

Dr Kadedesya Stephen



Qualification:

BSc Ed (BU), MSc (Mak), MSc (AIMS);
PhD-Mathematics (PAUSTI & JKUAT).

Designation: Lecturer and Coordinator, HEAC

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Area of specialization: Computational Abstract Algebra

COURSES TAUGHT: Applied Functional Analysis, Fluid Dynamics, Continuum Mechanics, Calculus, Elements of

Mathematics, Numerical Analysis I, Dynamical Systems, General Topology, Mechanics, Stochastic Processes and Functional Analysis, Ordinary Differential Equations I, Introductory Calculus, Basic mathematics, Mathematics for Biologists.

Research Interest: Combinatorics, Group Theory, Mathematics Education

Publications:

1. Muhumuza, R. N., Muhumuza, A. K., Mbabazi, F. K., Kyomuhangi, A., Mwasa, A., Oyem O. A., **Kadedesya, S.**, NABIRYE, T., Nanyondo, J., Wamakote, R, Muweesi, C., Atibuni, D., Ocen, G., Semwogerere, T., Olema, K. D., Kanyarusoke, K., Rwahwire, S., Nabas, G. L., Aguti, N. J., Biira, S., Kucel, S. B., Waako, P., Mwesigwa S. F., (2024) Integrating STEM Education in Uganda's Higher Education to Produce Skills Required to Stimulate Industrialisation and Sustainable Economic Growth. *National Review of Higher Education Journal*. <https://doi/10.58653/nche.v12i1.2>
2. **Stephen Kadedesya**, Lewis Nyaga, and Jane Rimberia (2023) On Suborbits and Graphs Associated With Action of Alternating Groups on Cartesian Product of Two Sets. *Asian Research Journal of Mathematics* 19 (11):165–174. <https://doi.org/10.9734/arjom/2023/v19i11763>.
3. Nabasirye Susan, Richard O. Awichi, **Stephen Kadedesya**, Anselm O. Oyem (2023). Application of Computational Fluid Dynamics in Simulation and Optimization of a Fluidized Sugar Bed Dryer. *WSEAS Transactions on Heat and Mass Transfer*, 18:286-295. 10.37394/232012.2023.18.25
4. Muhumuza, A.K., Mbabazi, F.K., Nalule, R.M., Mwasa, A., Kyomuhangi, A., **Kadedesya, S.** (2022). Enhancing Research Output in Higher Institutions of Learning: A Case Study of Busitema University Research Model. *Journal of the National Council for Higher Education*.
5. **Stephen Kadedesya**, Lewis Nyaga, Jane Rimberia (2019). Action of Direct Products of Four Alternating Groups on Cartesian Product of Four Sets; *Mathematical Theory and Modelling*, Vol 9, No.11
6. **Stephen Kadedesya**, Lewis Nyaga, Jane Rimberia (2019). Action of Direct Products of Four Symmetric Groups on Cartesian Product of Four Sets; *Global Journal of Pure and Applied Mathematics*, Vol 15, No.6 , Pp 997-1017.