KARATINA UNIVERSITY

STAFF PROFILE

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1. **Name:** Dr. Flora Mati Runji
2. **Designation**: Lecturer
3. **Employment details**

   School: School of Pure and Applied Sciences

   Department: Department of Mathematics, Statistics and Actuarial Science

4. **Contact Information**

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   https://scholar.google.com/citations?hl=en&user=T8CvaukAAAAJ

5. **Biodata**

Dr. Flora Runji is a University Lecturer in the School of Pure and Applied Sciences at Karatina University where she has been a faculty member since 2012. She holds a PhD in Pure Mathematics from Moi University, an MSc degree in Pure Mathematics from Kenyatta University as well as a Bachelor in Education degree from Kenyatta University. Dr. Flora has research interest in Mathematical Analysis, Mathematical Coding and is currently diversifying her research base to Data Science and Machine Learning.

She has served as the Head of Department for six years and acted as a Dean of the School for three Months. She has served in at least six management committees, participated in two conference organizations and spearheaded curriculum review and development of several programs. As a Scholar, she is actively engaged in research work, at individual level as well as in collaborations. She has actively participated conferences and workshops and published her work also. She is a mentor, a program academic leader providing career guidance to junior faculty members and students at all levels.

6. **Area/ Field of specialization**: Pure Mathematics

7. **Research interests**: Analysis, Mathematical Coding, Data Science, Machine Learning

8. List some of your key published works.

   i)   Simatwo, K.B., Mati, R.F., & Karieko, O.R. (2023). *Enumeration of Cyclic Codes* Over GF(23). Journal of Advances in Mathematics and Computer Science.

   ii) Flora Mati Runji, J. O. Agure, F. O. Nyamwala, *On the Numerical Range of a Generalized Derivation.* International Mathematical Forum. Vol. 12, 2017, No. 6, 277 - 283, HIKARI Ltd, www.mhikari.com
        https://doi.org/10.12988/imf.2017.611148

   iii) Flora Mati Runji, John Ogonji Agure, Fredrick Oluoch Nyamwala, *On the Maximal Numerical Range of Elementary Operators*. International Journal of Pure and Applied Mathematics. Vol. 112, No. 4, 2017, pp741-747.
        doi: 10.12732/ijpam.v112i4.6

Peer-reviewed Publications

Flora Mati Runji, J. O. Agure, F. O. Nyamwala, *On the Numerical Range of a Generalized Derivation.* International Mathematical Forum. Vol. 12, 2017, No. 6, 277 - 283, HIKARI Ltd, www.mhikari.com https://doi.org/10.12988/imf.2017.611148

Flora Mati Runji, John Ogonji Agure, Fredrick Oluoch Nyamwala, *On the Maximal Numerical Range of Elementary Operators.* International Journal of Pure and Applied Mathematics. Vol. 112, No. 4, 2017, pp741-747. doi: 10.12732/ijpam.v112i4.6