

FACULTY PROFILE

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| Name of the Faculty Member | Dr. Diamond Kharkongor. |
| Campus | Shillong. |
| Designation | Assistant Professor in Mathematics and Statistics. |
| Department | Management. |
| Qualifications | Ph.D in Mathematics. |
| Academic Experience | 2 years Guest faculty in the Department of Mathematics at North – Eastern Hill University Shillong from 17/04/2023 - 18/08/2023. Teaching at ICFAI university, Meghalaya for 1 year. |
| Achievements | Rector's Gold medal 2019. S. S. Khare most promising mathematician of the year 2019. 9th position in B.Sc NEHU examination 2017. |

NATIONAL EXAMINATIONS:

CSIR NET in Mathematical Sciences.

GATE in Mathematics.

PUBLICATIONS

- Diamond Kharkongor, Laithun Boro, M. M. Singh & Sanghita Dutta, Topological indices of total graph of the ring $Z_m \times Z_n$, TWMS J. App. Eng. Math. , Vol. 13, No. 04, (2023), pp. 1434 - 1445.
- Diamond Kharkongor, Laithun Boro, M. M. Singh & Sanghita Dutta, Some properties of Von Neumann regular graphs of rings, Journal of Indosesian Mathematical Society, Vol. 28, No. 02 (2022), pp. 185-193.
- Diamond Kharkongor and Laithun Boro, "Some Properties of the graph of the ring $Z_n \times Z_m$ ", Fundamental Frontiers: Exploring Core Sciences, First Edition: October, 2024, ISBN: 978-93-91883-59-1.

LIST OF PAPERS PRESENTED:

- "Domination numbers of Von-Neumann regular graphs of rings", in the two-day international conference on "Recent Trends in Modern Mathematics" organized by the PG &

Research Department of Mathematics, St. John's College Palayamkottai on the 23rd and 24th of September 2021.

- "Spectrum and Laplacian Spectrum of the total graph of the ring $Z_m \times Z_n$ ", in the international conference on "Mathematical Sciences" (ICMS-2021) organized by the Department of Mathematics and Humanities (DoMH), SVNIT Surat on the 7th -9th of October 2021.
- "Clean graphs of finite commutative rings", in the 27th International Conference of International Academy of Physical Sciences (CONIAPS XVII) on "Recent Advances in Pure & Applied Algebra (RAPAA)" organized by Department of Mathematics National Institute of Technology Jamshedpur, India, on the 26th-28th of October 2021.
- "On the Eccentricity-based topological indices of the total graph of the ring $Z_m * Z_n$ ", in the International Webinar on "Foundations for Contemporary Mathematical Research" organised by the Department of Mathematics, Manipur University, Cachinpur, Imphal India, on the 8th-10th of November 2021.
- "Degree-based topological indices of the total graph of the ring $Z_m * Z_n$ ", in the International Conference on "Applied Mathematics" organised by the Department of Applied Mathematics with Oceanology and Computer Programming, West Bengal, India, on the 8th-9th of June 2022.
- "The Total graph of ring $Z_p * Z_q * Z_r$ ", in the international conference on "Emerging Frontiers in Mathematical and computational Sciences (EFMCS – 2024)" during 24th – 26th October, 2024, organised by the department of Mathematics, North Eastern Hill University, Shillong, Meghalaya, India.

LIST OF CONFERENCES / FDP ATTENDED:

- GUJCOST(DST, Govt. of Gujarat) sponsored International Symposium on "Recent Advances in Fractional Calculus", organized by Department of Mathematical Sciences, P. D. Patel Institute of Applied Sciences (PDPIAS), Charotar University of Science and Technology (CHARUSAT), Changa (388 421), Gujarat, India held on the 30th September and 1st October, 2021.
- 2nd International Webinar on "Recent Developments in Number Theory 2021", organized by KIIT Deemed University, Bhubaneshwar, Odisha, India during the 1st to 4th October, 2021.
- International Conference on "Class Groups on Number Fields and Related Topics-2021", organized by the Kerala School of Mathematics, held during the 21st-24th of October, 2021

- DST & ACS Workshop organized by the North-Eastern Hill University, held on the 30th of May, 2022.
- Two-day National Seminar on “Recent Trends in Topology and Its Applications”, organized by the Department of Mathematics, North-Eastern Hill University, Shillong, Meghalaya, India held on the 4th and 5th August, 2022.
- DST-SERB sponsored two days International Workshop on “Mathematical Foundations and Applications of Gravity (MFAG-2022)” , organised by the Department of Basic Sciences & Social Sciences, North-Eastern Hill University, Shillong, Meghalaya, India during the 25th and 26th of August, 2022.
- One day National Webinar on “Research Methodology” organized by the Department of Mathematics, St. Joseph University, Chumoukedima, Nagaland in collaboration with Assam Don Bosco University, Assam and AMET University, Chennai held on the 20th of September 2022.
- Two days national online workshop on “AI Tools for Mastery in Modern teaching” organised by Indian Mathematics Professors Association and Infinity Research and Development Institue, Coimbatore held on the 02nd to 03rd of September 2023.
- A Two - Day Online Hands - On Workshop to “Mastering Graph Theory Concepts with Python Programming”, organised by Arjun College of Technology Coimbatore & Indian Mathematics Professors Association held from 13th to 14th October 2023.
- One week Faculty Development Program on “Scientific Software”, organised by Department of Mathematics, School of Basic Sciences, The Assam Kaziranga University from 12th – 18th July 2024.