

Faculty Profile

Name: Dr. Shivani Rai

Designation: Assistant Professor

Teaching Areas: Mathematics, Quantitative Methods,
Probability and Statistics, Operations Research,
Numerical Aptitude & Reasoning.

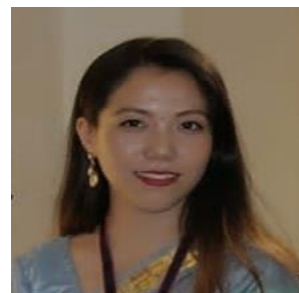
Qualification: Ph. D (Mathematics)

NESLET (Mathematical Sciences)

GATE (Mathematical Sciences)

M.Sc (Mathematics)

B.Ed



Research Achievements: Recipient of the Best Paper Award at the International Conference on Discrete Mathematics (ICDM-2023), organized by Vidhyavardhaka College of Engineering, Mysuru. A member of the organizing committee of the International Conference in Nonlinear Dynamics and Applications (ICNDA-2022), Department of Mathematics, SMIT.

Research Publications:

1. On the First and Second Zagreb Indices of Some Products of Signed Graphs, AKCE International Journal of Graphs and Combinatorics, Vol. 20, 2023- Issue 2, (2023), Publisher: Taylor & Francis [Indexed in SCIE, Q2, Impact Factor:1.0 (2023)]
2. Extremal Topological Indices of Some Nanostructures”, in Heliyon, Vol. 9, Issue 11, (2023) Publisher: Elsevier [Indexed in SCIE, Q1, Impact Factor: 4.0 (2023)].
3. Some Bounds of the Neighborhood Versions of Banhatti-Sombor Index and Modified Sombor Index, Proceedings of the International Conference on Mathematical Sciences and Applications (ICMSA-2023), Taylor & Francis.
4. Chemical Significance of Some Neighborhood Degree-based Molecular Descriptors, Proceedings of the International Conference on Nonlinear Dynamics and Applications (ICNDA-2024), Springer.

Accepted Papers:

1. Study of Bounds of Some Neighborhood Degree-based Molecular Descriptors and their Chemical Significance Using Machine Learning Approach, AKCE International Journal of Graphs and Combinatorics, Publisher: Taylor & Francis [Indexed in SCIE, Q2, Impact Factor:1.0 (2023)]