Faculty Profile

Name: **Ms. Shivani Rai**

Designation: Assistant Professor

Teaching Areas: Mathematics, Quantitative Methods,

                       Probability & Statistics, Operations Research,

                       Numerical Aptitude & Reasoning.

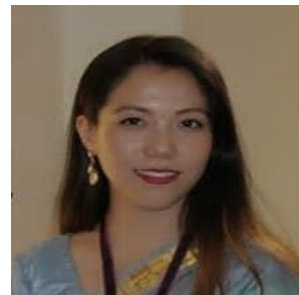**Qualification:**   NESLET (Mathematical Sciences)

                       GATE (Mathematical Sciences)

                       M.Sc (Mathematics)

                       B.Ed

                       Pursuing Ph. D (Mathematics)

Research Interests: Graph Theory

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/Selected Publication:

1 .Shivani Rai, 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. Shivani Rai, 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. Shivani Rai, 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. Shivani Rai, Chemical Significance of Some Neighborhood Degree-based Molecular Descriptors, Proceedings of the International Conference on Nonlinear Dynamics and Applications (ICNDA-2024), Springer.