**Basic Details:**

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**Area of Subject**: Mathematics

**Affiliation:** Department of Mathematics,

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**Educational Details:**

- **Ph.D –** SRM Institute of Science and Technology – Ramapuram, SRM University – 2024.
- **M.Sc Mathematics -** SRM Institute of Science and Technology – Kattankulathur, SRM University – 2020.
- **B.Sc Mathematics -** Anna Adarsh College for Women**,** University of Madras – 2018.

**Research Interests:** Graph Theory, Graph Labeling, Chemical Graph Theory

**Publications:**

(1). S. Vani shree, and S. Dhanalakshmi, (2022), **"On face bimagic mean labeling of duplication of a path graph,"** Telematique, vol. 21, no. 1, pp3262-3267.

(2). S. Vani shree, and S. Dhanalakshmi, (2023), **"New results on face magic mean labeling of graphs,"** Mathematics and Statistics, vol.11, no. 1, pp199-205, DOI: 10.13189/ms.2023.110123.

(3). S. Vani shree, and S. Dhanalakshmi, (2023), **"Application of edge bimagic mean labeling in data security,"** Asia Pacific Journal of Mathematics, vol. 10.

(4). S. Vani shree, and S. Dhanalakshmi, (2024), **"Face bimagic mean labeling of herschel graphs and graph operations,"** Contemporary Mathematics, vol. 5, no. 1, pp 209-221.

(5). S. Vani Shree and S. Dhanalakshmi,(2024),"**Information security by employing RSA algorithm and graph labeling,"** IAENG International Journal of of Applied Mathematics vol. 54 (12), pp 2563-2568.

(6). S. Vani Shree and S. Dhanalakshmi,(2025),**"Encryption and decryption of data using edge bimagic means labeling and hill cipher technique"**, Advances in nonlinear variational inequalities, vol. 28(6).

## List of Papers Presented in International/ National Conferences:

(1). Progress in Mathematics Towards Industrial Application on 27th and 28th October 2023, under the title **Information security by employing RSA algorithm and graph labeling**, organized by the Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

(2). 4th International Conference on Mathematical Techniques and Applications on 22nd - 24th March 2023, under the title **Edge bimagic mean labeling of ladder related graphs and its cryptography application**, organized by the Departments of Mathematics, SRM Institute of Science and Technology, Kattankulathur-603 203.

(3). International Conference on Fractional Calculus: Theory, Applications and Numerics on 27th - 29th January 2023, under the title **Face Bimagic Mean Labeling of Herschel Graph and its Operations**, organized by the Department of Mathematics, National Institute of Technology Puducherry, Karaikal, India.

(4). International Conference on Applied Mathematical Models on 4th - 6th January 2023, under the title **Face Bimagic Mean Labeling of Fusion of Vertex in a Herschel Graph**, Department of Mathematics, PSG College of Technology, Coimbatore.

(5). Progress in Mathematics Towards Industrial Application on 28th and 29th October 2022, under the title **Face Bimagic Mean Labeling of Herschel Graph**, organized by the Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

(6). 3rd International Conference on Mathematical Techniques and Applications on 23rd - 25th March 2022, under the title **Total edge bimagic mean labeling of some graphs**, organized by the Departments of Mathematics, SRM Institute of Science and Technology, Kattankulathur-603 203.

(7). 3rd National Conference on Recent Advancement in Physical Sciences" on 19th and 20th December 2021, under the title **Face Magic Mean Labeling of Some Special Graphs,** organized by National Institute of technology, Uttarakhand,

(8). Progress in Mathematics Towards Industrial Application on 29th and 30th October 2021, under the title **Face magic mean labeling of cactus graph**, organized by the

Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

(9). International Conference on Mathematical Modeling, Applied Analysis and Computation on 5th - 7th August 2021, under the title **Face magic mean labeling of some snake related graphs**, organized by JERC University, Jaipur, India.

**List of Online NPTEL Course Completed:**

(1). Completed the online NPTEL course on ***"Graph Theory"***

(2). Completed the online NPTEL course on ***"Engineering Mathematics I"***

## Membership:

- International Association of Engineers (IAENG) – Membership Number: 377702