Basic Details:

- **Name:** Dr. B. Roopa

- **Designation**: Assistant Professor

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- **Area or Subject:** Mathematics / Graph Theory

- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

Educational Details:

- **Degree, University, Awarded Year**

  - ➤ B.Sc., Mathematics, Bharathiar University, Coimbatore 2001, N.G.M.College, Pollachi, Tamilnadu.

  - ➤ M.Sc., Mathematics, Bharathiar University, Coimbatore 2003, N.G.M.College, Pollachi, Tamilnadu.

  - ➤ B.Ed., Mathematics, Bharathiar University, Coimbatore 2005, Government College of Education, Tamilnadu.

  - ➤ M.Phil., Mathematics, Madurai Kamarajar University, Madurai, 2007, DDCE.

  - ➤ Ph.D., SRM Institute of Science and Technology, Kattankulathur, 2021, Tamilnadu.

Research Interests: Graph Theory.

Publications:

1. Roopa.B, Shobana.L, On face magic labeling of double duplication of some families of graphs, International Journal of Pure and Applied mathematics, 114(6), (2017) pp. 49-60.

2. Roopa.B, Shobana.L, Face magic labeling for double duplication of cycle related graphs, Journal of Advanced Research in Dynamical & Control Systems, 10(7), (2018) pp. 48-53.

3. Roopa.B, Shobana.L, On face bimagic labeling for duplication and double duplication graphs, AIP Conference Proceedings 2112, 020155 (2019).

4. Roopa.B, Shobana.L, R. Kalaiyarasi, On Face Magic Labeling of Duplication of a Tree, Applied Mathematics & Information Sciences, 13(S1), (2019) pp. 275-278.

5. Roopa.B, Shobana.L, On Face Bimagic Labeling for Double Duplication of Tree related Graphs, International Journal of Advanced Science and Technology, 29(04) (2020) pp. 5687-5694.

6. Roopa. B, Shobana. L, Face Bimagic Labeling on some Graphs, Turkish Journal of Computer and Mathematics Education, Vol.12, No.6, (2021) pp.101-107.

7. Roopa.B, Shobana. L, Ismail Naci Cangul, Face Magic Labeling of Double Duplication of Graphs, Advanced Studies in Contemporary Mathematics 31(04) (2021) pp.423-431.

8. Roopa.B, Shobana.L, Vasuki. B, Data Encryption using Face antimagic labeling and Hill cipher, Mathematics and Statistics, Horizon Research Publication Corporation, volume 10, No-2, (2022), pp. 431 - 435.

Academic Experience:

- Working as Assistant Professor in SRM Institute of Science and Technology, Ramapuram, Chennai from 4th July 2022 to till date.

- Worked as Assistant Professor in PERI Institute of Technology from 17th August 2017 to 30th December 2021.

- Worked as Assistant Professor in Tagore Engineering College from 22nd April 2013 to 30th April 2017.

- Worked as Lecturer in Vels Institute of Science, Pallavaram from 15th June 2008 to 30th April 2011.

Other Professional Experience: NIL

Other Details:

Achievements and Awards:

- NPTEL: Engineering Mathematics II – Awarded with Elite during January – March 2023
- NPTEL: Operations Research – Awarded with silver medal during June– December 2022.
- NPTEL: Graph Theory – Awarded with silver medal during January – March 2020.
- Alison : Strand 4 Leaving certificate Higher Level Algebra with a score of 89%
- .**Membership:** IAENG Membership, Membership Number: 337993.

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