Basic Details:

- **Name: Sivaranjani N U**
- **Designation**: Assistant Professor
- **Phone Number:** 9952636222
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- **Area or Subject: Algebra**
- **Affiliation:** Department of Mathematics, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Ramapuram Campus, Chennai- 600 089.
- **Research Profiles**
  - Scopus ID : 58966266300
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  - G-Scholar : https://scholar.google.com/citations?hl=en&user=eIBffjwAAAAJ
  - Researchgate: Sivaranjani N U

Educational Details:

- · **Ph.D. Mathematics** – SRM University – 2025
- · **M.Sc. Mathematics** – Madras University - 2020
- · **B.Sc. Mathematics** – Ethiraj College for Women – 2018

Research Interests: Representation theory, Algebra

List of Papers Selected Publications:

1. Sivaranjani, N. U., Nandakumar, E., Mittal, G., Sharma, R. K, Unit Group of the Group Algebra Kq SL(2, 7), Journal of Discrete Mathematical science and Cryptography, 27(1), 121–134.

2. Sivaranjani, N. U., Nandakumar, E., Mittal, G., Sharma, R. K, Unit Group of the Group Algebra Fq GL(2, 7), Armenian Journal of Mathematics, 16(3), 1-14.

3. Sivaranjani, N. U., Nandakumar, E., Mittal, G., Sharma, R. K, On the unit group of the semisimple group algebra Kq GL(2, Z5), Journal of Interdisciplinary Mathematics, 27(1), 121–134.

4. Sivaranjani, N. U., Nandakumar, E., Mittal, G., Sharma, R. K, Units of the semisimple group algebras Fq SL(2, 8)and Fq SL(2, 9), Annales Mathematicae et Informaticae, 59, 117-130.

5. Sivaranjani, N. U., Nandakumar, E, Characterization of Unit Group of the Unitary Group Algebra, Mathematical Statistician and Engineering Applications, 72(1), 1934-1941

6. Sivaranjani, N. U., Nandakumar, E, On the unit group of semi simple group algebra Kq(O(2, p))upto p = 11, Proceedings of ICETMSA2023, ISSN: 9789395341615, 7-14, 2023.

7. Sivaranjani, N. U., Nandakumar, E, Unit Groups of Group Algebras of Groups of order 25, (Under review in journal of algebra and its applications).

List of Papers Presented in International/National Conference:

1. Presented a paper in “International Conference on Recent Advances in Mathematics and Data Science” conducted by NIT Bhopal during 27th- 28th June, 2024 on the title “Orthogonal Group and the Corresponding Group Algebra over Finite Fields”.

2. Presented a paper in “International Conference on Lie Algebra and Number Theory” conducted by NIT Calicut during 10th- 14th June, 2024 on the title “Group of units of orthogonal group algebra over finite fields”.

3. Presented a paper in “International Seminar on Topology, Algebra and Analysis” conducted by University of North Bengal , West Bengal during 12th- 14th March, 2024 on the title “Semi simplicity and unit group structure in orthogonal group algebra”.

4. Presented a paper in “International Conference on Mathematical modelling applied analysis and computations” conducted by JECRC University, Jaipur during 3rd - 5th August, 2023 on the title “Units of orthogonal group algebra Kq(O(2,p)) upto p=19”.

5. Presented a paper “International Conference on Emerging Trends in Mathematical Sciences and Applications” conducted by Noorul Islam, Thuckalay on 26th April, 2023 on the title “On the unit group of semi simple group algebra Kq(O(2,p)) upto p=11”.

6. Presented a paper in “International Conference on Recent Trends in Applied Mathematics” conducted by Loyola College, Chennai during 24th - 25th February, 2023 on the title “Characterization of unit group of group algebra Kq(U(2,3)).”

7. Presented a poster in “International Conference on Lie Algebra and Number Theory” conducted by NIT Calicut during 10th to 14th June, 2024 on the title “Unit group structure in general linear group algebra over finite fields”.

8. Presented a poster in “Dr. Parivendhar Research Collaquim” conducted by SRM Institute of Science and Technology during 29th march 2023 to 31st march 2023 on the title “Structure

of unit group of the group algebra of the unitary groups".

Membership:

· 2025: LifeMember in IEEE.

· International Association of Engineers (IAENG) – Life Member, 2024

Achievements and Award:

Received Dr. APJ Abdul kalam research Award in 2025

Certifications – NPTEL Courses-Basic Linear Algebra, Conducted by IIT Bombay, funded by MoE, Govt. of India – Completed in March 2025