



Basic Details:

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Area of Subject:

Affiliation: Department of Mathematics

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SRM Institute of Science and Technology, Chennai-600089.

Educational Details:

- **B.Sc Mathematics-** Bharathiar University – 2002
- **M.Sc Mathematics-** Bharathiar University – 2004
- **M.Phil Mathematics-** Madurai Kamaraj University – 2006
- **PGDCA-** Annamalai University – 2004
- **Ph.D** – University of Madras –

Research Interests: Linear Algebra, Discrete Mathematics

Publications:

- (1). V. Subharani, N. Jansirani, V. R. Dare, “**Generalized Inverse of Special Infinite Matrix**”(Revised), Springer Proceedings in Mathematics and Statistics-Mathematical Analysis and Computing, vol-344, 319-332, 2021
- (2). V. Subharani, N. Jansirani, V. R. Dare, “**Combinatorial Properties of k-Periodic Recurrence Word**” (Revised), Advances in Mathematics: Scientific Journal, ISSN:1857-8365(printed), 1857-8438(electric), *Scopus indexed Journal*, 10, no.1,1613-1628, 2021.
- (3). N. Jansirani, V. Subharani, V. R. Dare, “**Special Inverse of k-Modulo Infinite Array**”, AIP Proceedings 2529, 020020(2022), <https://doi.org/10.1063/5.0103933>
- (4). N. Jansirani, V. Subharani, V. R. Dare, “**Generalized k-Modulo Graph**”, AIP Proceedings, *Scopus indexed Journal*, 2829, 070002 (2023). <https://doi.org/10.1063/5.0156760>.

- (5). V. Subharani, N. Jansirani, V. R. Dare, "***Combinatorial Properties of Circulant Infnite array***" (***Revised***), Advances and Applications in Mathematical Sciences, ***UGC Care List***, vol-21, issue-1, P.No:155-165, November 2021.
- (6). N. Jansirani, V. Subharani, V. R. Dare, "***Special Properties of Fibonacci Array Based on Dimension***" (***Revised***), International Journal of Computer Sciences and Engineering, ***UGC List***, E-ISSN: 2347-2693, Volume-07, Special Issue-05. P.no:10-15, March-2019.
- (7). V. Subharani, N. Jansirani, V. R. Dare, "***Special Properties of Circulant Infnite Array***"(***Revised***), The International Journal of Analytical And Experimental Modal Analysis, ***UGC Care List***, ISSN NO:0886-9367, vol-XI, issue-X, P.No: 219-227, Oct-2019.
- (8). V. Subharani, N. Jansirani, V. R. Dare, "***Norm and Jordan Form of K-modulo Infnite Matrix***" (***Revised***), Sambodhi, ***UGC Care List***, ISSN:2249-6661, vol-43, No.-02, 72-79, November-December 2020
- (9). N. Jansirani, V. Subharani, V. R. Dare, "***Recursive Normals on Circulant Arrays***", EDUVENTURE RESEARCH JOURNAL, (accepted for publication).
- (10). N. Jansirani, V. Subharani, V. R. Dare, "***Injectivity of Parikh Structure in Modulo Infnite Arrays***", (submitted).
- (11). R.Indira and V.Subharani, "***On K-Normal and Unitary Polynomial Matrices***", International Journal of New Technologies in Science and Engineering, vol-2, issue 2, ISSN 2349-0780, Aug-2015.
- (12). R.Indira and V.Subharani, "***On Secondary Normal and Unitary Polynomial Matrices***", International Journal of Innovative Technology and Exploring Engineering, vol-5, issue 3, Aug-2015.
- (13). R.Indira and V.Subharani, "***Fuzzy Normal Polynomial Matrices***", International Journal of Applied Engineering Research, vol-10, No.80, ISSN 0973-4562, 2015.
- (14). R.Indira and V.Subharani, "***Con-K-Normal and Unitary Polynomial matrices***", International Journal of Advances in Engineering Research, vol-10, issue No. V, e-ISSN-2231-5152, Nov-2015.

- (15). R.Indira and V.Subharani,"***Fuzzy K-Normal and Polynomial Matrices***", International Journal of Advances in Engineering Research, vol-10,issue No.VI, Dec-2015.
- (16). R.Indira and V.Subharani,"***Intuitionistic Fuzzy K-Normal and Polynomial Matrices***", International Journal of New Technologies in Science and Engineering, vol-2,issue-6, Dec-2015.
- (17). R.Indira and V.Subharani,"***Fuzzy S-Normal and Polynomial Matrices***", International Journal of New Technologies in Science and Engineering, vol-3, issue 8, ISSN 2349-0780, Aug-2016.
- (18). R.Indira and V.Subharani,"***Intuitionistic Fuzzy S-Normal and Polynomial Matrices***", International Journal of Advances in Engineering Research, vol-12, issue No. III, e-ISSN-2231-5152, Sep-2016.
- (19). R.Indira ,V.Subharani, "***On Range Idempotent Matrices***", International Journal of New Technologies in Science and Engineering, vol-3, issue 10, ISSN 2349-0780, Oct-2016.

List of Papers Presented in International/ National Conferences:

- (1). N. Jansirani, V. Subharani, V. R. Dare, "***Special properties of Fibonacci Array Based on Dimension***", International Conference On Computing Sciences, ISBN 978-81-910217-0-9, Nov-2018.
- (2). N. Jansirani, V. Subharani, V. R. Dare, "***Combinatorial Properties of Circulant Infnite array***", International Conference On Mathematical Computer Engineering, ISBN : 978-93-81899-94-6, Nov-2018
- (3). V. Subharani, N. Jansirani, V. R. Dare, "***Special Properties of Circulant Infnite Array***", International Conference on Computational and Applicable Mathematics (ICCAM), Sep-2019.
- (4). V. Subharani, N. Jansirani, V. R. Dare, "***Drazin Inverse of Special Infnite Adjacency Matrix***", International Conference on Graph Theory and Its Applications, Nov-2019.
- (5). V. Subharani, N. Jansirani and V. R. Dare, "***Generalized Inverse of Special Infnite Matrix***", International Conference on Mathematical Analysis and Computing (ICMAC – 2019), December 23 – 24, 2019.

- (6). V. Subharani, N. Jansirani and V. R. Dare, "**Generalized Parikh Matrices For Circulant Arrays**", National Conference on Mathematics & Computer Applications (NCMCA 2020), January 28-29, 2020.
- (7). V. Subharani, N. Jansirani and V. R. Dare, "**Group Inverse of Vertex Labeling Graphs**", National Conference (Online Mode) on Exploring the Expectations & Executions in Scientific Research (EEESR-2020), July 16-17, 2020.
- (8). V. Subharani, N. Jansirani and V. R. Dare, "**Norm and Jordan Form of K -modulo Infinite Matrix**", International Conference on Continuity, Consistency and Innovation in Applied Science and Humanities (ICCIASH2020)-online mode, Telugana, India, August, 2020.
- (9). V. Subharani, N. Jansirani and V. R. Dare, " **M -Ambiguity of Circulant Array**", 28th International Conference (Virtual) of Forum for interdisciplinary Mathematics Synergies in Computational, Statistical and Physical Sciences (FIM 28:SCMSPS2020), Chennai, India, November, 2020.
- (10). V. Subharani, N. Jansirani and V. R. Dare, "**Combinatorial Properties of k -Periodic Recurrence Word**", International Conference on Rough Set Theory and Mathematical Applications (ICRSM21), Chennai, India, January, 2021.
- (11). N. Jansirani, V. Subharani and V. R. Dare, "**Special Inverses of k -Modulo Infinite Array**", International Conference on Recent Trends in Pure and Applied Mathematics (ICRTPAM-2021), Phuket Rajabhat University, Phuket, Thailand, September, 2021.
- (12). N. Jansirani, V. Subharani and V. R. Dare, "**Generalized k -Modulo Graph**", International Conference on Recent Advances In Mathematics and Computational Engineering (ICRAMCE - 2022), Chennai, India, January, 2022.
- (13). R. Indira and V. Subharani, "**Fuzzy Normal Polynomial Matrices**", National Conference on Fuzzy Theory and Applications (NCFTA15), Chennai, India, July, 2015.

E-Courses Attended:

- (1). Completed the online NPTEL course on “*Introduction to Automata, Languages and Computation*” organized by IIT Kharagpur during Jan – April 2019.
- (2). Completed the online NPTEL course on “*Digital Image Processing*” organized by IIT Kharagpur during July – Oct 2019.

Academic Experience:

- Lecturer, Department of Mathematics, Navarasam Arts and Science College for Women, Erode. 17-01-2005 to 19-10-2007

Membership in Professional Organization:

- Life Member in Ramanujan Mathematical Society

