



FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification	P.KALARANI/ M.Sc;M.Phil;B.Ed;(PHD)		
Designation	Assistant professor		
Department	Science and Humanity(Mathematics)		
Total Teaching Experience	13 Years		
Total Research Experience	3 Years		
Total Industry Experience	-		
Area of Specialization	Graph Theory/ Graph Labeling/ Nodular Multiplicative Divisor Labeling		
AICTE Faculty ID	1-45318132582		
Email ID	kalaranip04@gmail.com		
EDUCATIONAL DETAILS			
Degree	Branch/Specialization	University	Year
UG	B.Sc/Mathematics	Bharathidasan University	2003
PG	M.Sc/Mathematics	Bharathidasan University	2006
M.Phil.	M.Phil/Mathematics	PRIST University	2010
Ph.D.	Graph Theory/Graph Labeling	Saveetha University	Thesis submitted (2022-2025)
RESEARCH/PUBLICATION DETAILS			
<u>Publications in Journal</u>			
1.Kalarani P, Revathi R. MMD Labeling for EASS of Jelly Fish Graph. In 2023 Third International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) 2023 Jan 5 (pp. 1-6). IEEE. https://doi.org/10.1109/ICAECT57570.2023.10117872, Scopus			

- 2. Kalarani P, Revathi R. MMD Labeling of EASS of jewel graph. OPSEARCH. 2024 Mar;61(1): 334-51.DOI: <https://doi.org/10.1007/s12597-023-00691-8> Scopus, Web of Science, Impact Factor- 1.4**
- 3. Kalarani P, Revathi R, Rathour L, Mishra LN. Exploring Modular Multiplicative Divisor Labeling to Expand Graph Families. Discrete Mathematics, Algorithms and Applications. 2024 Dec 27.DOI: <https://doi.org/10.1142/S1793830925500144> Scopus, Web of Science, Impact Factor- 0.6**
- 4. Kalarani P, Revathi R. Modular Multiplicative Divisor Labeling Techniques for Efficient Minimum Spanning Tree Computation in Jellyfish Graph Using Kruskal Algorithm. In2025 Fifth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) 2025 Jan 9 (pp. 1-6). IEEE.DOI: <https://doi.org/10.1109/ICAECT63952.2025.10958982>, Scopus**
- 5. Kalarani P, Revathi R, Agasthi P, Sathiragavan M, Kalaiselvi B. Efficient Network Modeling with Modular Multiplicative Divisor Labeling in Even Tentacled Jellyfish Graphs. In2025 International Conference on Inventive Computation Technologies (ICICT) 2025 Apr 23 (pp. 1648-1654). IEEE. DOI: <https://doi.org/10.1109/ICICT64420.2025.11005187>, Scopus**
- 6. Kalarani P, Revathi R, Agasthi P, Sathiragavan M, Kalaiselvi B. Enhanced Network Security Using Modular Multiplicative Divisor Labeling in Vertex Switched Graphs. In2025 International Conference on Inventive Computation Technologies (ICICT) 2025 Apr 23 (pp. 1541-1547). IEEE.DOI: <https://doi.org/10.1109/ICICT64420.2025.11004998>, Scopus**
- 7. Kalarani P, Revathi R, Vijaykrishnaraj R, Suganya A, Vijayalakshmi K. Optimized Modular Multiplicative Divisor Labeling for Efficient Minimum Spanning Tree Computation in Jellyfish Graphs Using Prim's Algorithm. In2025 8th International Conference on Trends in Electronics and Informatics (ICOEI) 2025 Apr 24 (pp. 1380-1387). IEEE.DOI: <https://doi.org/10.1109/ICOEI65986.2025.11013719>, Scopus**
- 8. P. Kalarani, R. Revathi, B. Lavanya, V. Kamalakannan, S. SathishKumar and N. Legapryadharshini, "Algorithmic Verification of Modular Multiplicative Divisor Labeling in Vertex Switched Jewel Graphs with Odd/Even Jewel Count for Secure Networks Using Python Pseudocode," 2025 11th International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, India, 2025, pp. 1501-1506, <https://doi.org/10.1109/ICCSP64183.2025.11088769>, Scopus**
- 9. B. Kalaiselvi, K. Sivakumar and P. Kalarani, "A Generalized Approach to Strengthen Neutrosophic Decision-Making Systems," 2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), Tirunelveli, India, 2025, pp. 1216-1221, <https://doi.org/10.1109/ICDICI66477.2025.11135050>. Scopus**

10. B. Kalaiselvi, K. Sivakumar and P. Kalarani, "Renovating Neutrosophic Systems Through a New Generalization Methodology," 2025 11th International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, India, 2025, pp. 1466-1471, <https://doi.org/10.1109/ICCSP64183.2025.11088708>.

Scopus

11. B.Kalaiselvi, K.Sivakumar, K.Selvakumari, V.R.Pathmavathi, P.Kalarani and A.Kesavan, "Deep Neural Network-Enhanced Trapezoidal Neutrosophic Shortest-Path Optimization in Uncertain Graphs," 2025 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), Erode, India, 2025, pp. 1988-1993, <https://doi.org/10.1109/ICSCDS65426.2025.11166880>. Scopus

Books/ChaptersPublished

FundReceived

-

PatentApplied/ Published/Granted

GRANTED

-

GRANTED

-

GRANTED

-

RESEARCHGUIDANCEDETAILS

Sl.No	University	SupervisorID/Reference
1	AnnaUniversity, Chennai	-
2	NumberofUGScholarsGuided	-
3	NumberofPGScholarsGuided	-
4	NumberofPh.D.Scholars Guided	-
5	NumberofPh.D. Scholars Pursuing	-

PROFESSIONALSOCIETYMEMBERSHIPDETAILS		
Sl.No	ProfessionalSocietyName	MemberID
1	-	-