

CURRICULUM VITAE

DEPARTMENT : Mathematics

1. Name : Dr. R. Nithyakala
2. Father's/ Husband's Name : Mr. M. Eswaramoorthi
3. Designation : Associate Professor
4. Age and Date of Birth : 44, 04-02-1982
5. Sex : Female
6. Marital Status : Married
7. Mobile No. : 94867 76778, 70100 27752
8. Email ID : nithyaeswar11@gmail.com



9. Educational Qualification :

S.No	Course	University	Year of Passing	% of Marks Secured	Class Obtained	Specialization
1	UG	Bharathiar	2002	81	First	
2	PG	Bharathiar	2004	81	First	
3	M. Phil	Bharathiar	2006	67	First	Topology
4	MCA	Bharathiar	2010	71	First	
5	Ph. D	Bharathiar	2015	-		Topology

10. Experience : 19 Years, 4 Months

S.No	Institution	Designation	Period		Total Service	
			From	To	Years	Months
1	NGM, Pollachi	Lecturer	6/1/2006	30/4/2006	-	4
2	Vidyasagar College Arts and Science, Udumalpet	Assistant Professor	1/6/2007	22/5/2026	19	-

11. Guide Approval : M. Phil. } Both obtained
Ph. D. }

12. Number of Publications : 26 (International).

13. Seminar / Workshop / Conference / Symposium participation: 50 international: 10

14. Research Guidance :

Programme	Completed	Ongoing	Total
M. Phil.	4	-	4
Ph. D	4	1	5

15. Membership in professional bodies 1) Life member in Indian Science Congress Association, Calcutta.

16. Specific achievements, if any

- (i) Got first prize in Paper Presentation National Level Seminar Organized by P.S.G.R Krishnammal College, Coimbatore on January 2008.
- (ii) Conducted three times district level QUIZ competitions for School students for the Govt. organized “Vattara kalai vizha”.

Signature

[Dr. R. NITHYAKALA]

LIST OF PUBLICATIONS

1. scg , sc^*g , $sc(s)g$ –closed sets in topological spaces, *Proceedings of the 99th Session of the Indian Science Congress, Bhubaneswar* (2012), p. 89.
2. scg , sc^*g , $sc(s)g$ –continuous functions in topological spaces, *IJPAMS*. ISSN: 0972-9828. Vol.1, Number 1 (2012), p. 65-72.
3. scg , sc^*g , $sc(s)g$ –continuous mappings in topological spaces, International Conference on “Mathematics in Engineering and Business Management”, *Stella Maris College and Loyola Institute of Business Administration, Chennai, Tamil Nadu* (March 2012), p. 523-527.
4. A new class sc^*g –set weaker form of closed sets in topological spaces, *IJCA*(0975-8887), Vol. 55-No. 4, October (2012), p. 25-29.
5. sc^*g –Homeomorphisms in topological spaces, *IJERT*, ISSN : 2278-0181, Vol.2, Issue 12 December (2013), p. 3502-3503.
6. scg –closed sets in topological spaces, International Conference on “Mathematical Science and its Computational Applications (ICMSCA-2014)”, *Dr. N.G.P. Arts and Science College, Kalapatti, Coimbatore, Tamil Nadu, August* (2014), p. 101-103.
7. An over-view of Topology and it’s Applications, in the one day National Level Seminar “Modern Techniques and Applications in Mathematics”, *Sree Saraswathi Thyagaraja College, Pollachi* on 11th February, 2016.
8. scg –Irresolute Function and sc^*g –Irresolute Function in Topological Spaces, in one day National Conference on “Mathematical Modeling and Fuzzy Logic Applications” , *Department of Science & Humanities (Mathematics), RVS-Technical Campus, Coimbatore* on 20th February, 2016.
9. “ Scg -closed maps, scg -open maps and sc^*g -open maps and sc^*g -closed maps in Topological spaces”, *Asia Pacific Journal of Research*, ISSN – 2320-5504, Vol.I issue XLII, August 2016, P:210-214.
10. A Study on semi $c(s)$ -Generalized closed sets in Topological Spaces, *International Journal of Recent Research and Applied Studies*, ISSN: 2349-4891, Vol.3, issue 12(23), December 2016, P:97-101.
11. A Study on semi $c(s)$ -Generalized closed sets in Topological Spaces, *International Journal of Recent Research and Applied Studies*, ISSN: 2349-4891, Vol.3, issue 12(23), December 2016, P:97-101.
12. Semi $c(s)$ - Generalized closed sets in Topological Spaces, *Journal of informatics and Mathematical Sciences*, Vol.9, N.3,pp.521 -528, 2017, ISSN 0975 – 5748(online); 0974- 875X(print).

LIST OF PUBLICATIONS WITH SCHOLARS

LIST OF PUBLICATIONS

- [1] P.Padmavathi, R.Nithyakala, A note on Nano Generalized pre c-closed sets, International Journal of Advanced Science and Technology, Vol 29, No.3s (2020) 194-201, ISSN: 2005-4238. **(Scopus Indexed)**.
- [2] P.Padmavathi, R.Nithyakala, On Nano Generalized pre c-continuous functions in Nano Topological Spaces, Advances in Mathematics: Scientific Journal 9 (2020), no 10, 7925-7931, ISSN : 1857-8365. **(Scopus Indexed)**.
- [3] P.Padmavathi, R.Nithyakala, Elimination of Attributes in Chronic Kidney disease using basis in Nano Topology, International Journal of Innovative Science, Engineering and Technology, Vol 8, Issue 3, March 2021, 115-119, ISSN : 2348-7968 (Online).
- [4] P.Padmavathi, R.Nithyakala, Nano Generalized pre c-Irresolute and Nano Contra Generalized pre c-Irresolute functions, International Journal of Mathematics Trends and Technology, Vol 67, Issue 7, 104-112, July 2021, ISSN : 2231 – 5373.
- [5] P. Kalaivani and R. Nithyakala “On Nano Weakly $g\#$ - Closed sets in Nano Topological Spaces” Strad Research, Vol 8, Issue 9 (2021) 367-375. <https://doi.org/10.37896/sr8.9/045>
- [6] Kalarani.M and Nithyakala R, “On Nano Generalized α^{**} Continuous and Nano Generalized α^{**} Irresolute Mappings”, Ratio Mathematica, vol.51, Online First Papers, (2024), ISSN: 1592-7415.
- [7] P. Kalaivani. and R. Nithyakala. “Nano Weakly $g\#$ - Closed maps and Nano Weakly $g\#$ - Open maps in Nano Topological Spaces”, South East Asian Journal of Mathematics and Mathematical Sciences, Vol.20, No.2 (2024) 425 - 438. (Scopus Indexed)
- [8] Kalarani M, and Nithyakala R, “Attribute Reduction in Students Selection for a Merit Cum Means Based Scholarship Scheme using Basis in Nano Topological Spaces”, Ratio Mathematica, vol.48, (2023), 9-19, ISSN: 1592-7415.
- [9] Kalarani M, Nithyakala R and Kalavathy A, “Nano generalized α^* closed sets and Nano generalized α^{**} closed sets in Nano Topological spaces”, Strad Research, vol.9, no.1, (2022), 58-66, ISSN: 0039-2049, <https://doi.org/10.37896/sr9.1/006>.
- [10] Kalarani.M and Nithyakala R, “A Study on Nano Contra Generalized α^{**} Continuous Functions in Nano Topological Spaces”, (2024), (Communicated).

- [11] P. Kalaivani and R. Nithyakala “An Application of Nano Topological Spaces in Agriculture” International Journal of Scientific Research in Science and Technology, Vol.11, Issue.5 (2024) 292-300.
- [12] P. Kalaivani and R. Nithyakala “Nano Weakly $g^{\#}$ - Irresolute Functions and Nano Weakly $g^{\#}$ - Homeomorphisms in Nano Topological Spaces” South East Asian Journal of Mathematics and Mathematical Sciences, Vol.20, No.3 (2024) 435 - 452. (Scopus Indexed).
- [13] N. Revathi, R. Nithyakala, (2021). Local Search A tool in Heuristics Journal of Huazhong University of Science and Technology, 50 (3) 1-24.(SCOPUS)
- [14] Revathi, N., Nithyakala, R., Balaji, S. (2023). A bio-inspired technique for the maximum weighted clique problem. National Academy Science Letters, 46(3), 223-227. (SCIE, SCOPUS, Web of Science)
- [15] Revathi, N., Nithyakala, R., Maheswari, G., Balaji, S. (2025). Jumping particle swarm-based local search approach for the maximum weighted independent set problem Discrete Mathematics, Algorithms and Applications, 2550063. (SCIE, SCOPUS, Web of Science)
- [16] N. Revathi, R. Nithyakala, (2025). Approximating Maximum weighted independent set. International Conference on Recent Trends in Computer Science, Technology, Data Science and Applications (ICRTCTDA-2025), Vidyasagar College of Arts and Science, Udumalpet, February 2025.

LIST OF CONFERENCE PRESENTATIONS

- [1] P. Padmavathi, R. Nithyakala, Presented a paper entitled “On Nano Generalized pre c-Connectedness in Nano Topological Spaces” in the International Conference on “Mathematical Sciences and its Applications” held at the Department of Mathematics, Pasumpon Muthuramalinga Thevar College, Usilampatti, Madurai on 7th and 8th October, 2021.
- [2] P. Padmavathi, R. Nithyakala, Presented a paper entitled “Nano Generalized pre c-Homeomorphism in Nano Topological Spaces” in the One Day International Conference on “Emerging Trends in Science and Technology” jointly Organized by Department of Biological Science, Physical Science and Computational Science, Nallamuthu Gounder Mahalingam College, Pollachi on 27th October 2021.
- [3] Kalarani. M and Nithyakala R, Presented a paper “Nano generalized α^{**} - closed sets in Nano Topological Spaces” in the International Conference on Emerging Trends in Science and

Technology (ETIST 2021) in Nallamuthu Gounder Mahalingam College, Pollachi on 27th October 2021.

- [4] Kalarani.M and Nithyakala R, Presented a paper “Nano generalized α^* - closed sets and Nano generalized α^* continuous functions in Nano Topological Spaces” in the International Conference on Mathematical Sciences and its Applications (ICMSA-2021) in Pasumpon Muthuramalinga Thevar College, Usilampatti, Madurai on 7th & 8th October 2021.
- [5] Presented a paper “On Nano Weakly $g^\#$ - Continuous Functions in Nano Topological Spaces” in the International Conference on Mathematical Sciences and its Applications (ICMSA- 2021) in Pasumpon Muthuramalinga Thevar College, Usilampatti, Madurai, on 7th & 8th October (2021).
- [6] Presented a paper “On Nano Weakly $g^\#$ - Irresolute Functions and Nano Weakly $g^\#$ - Homeomorphisms in Nano Topological Spaces” in the International Conference on Blooming Fuzzifier Logic (ICBFL-2024) in Chikkanna Government Arts College, Tiruppur, on 21st October (2024).
- [7] N. Revathi, R. Nithyakala, (2025). A discrete swarm optimization approach for the maximum clique problem. International Conference on Innovations in Intelligent Computing and Biological Sciences (IICBS-2025), Sri Ramakrishna College of Arts and Science for Women & Asia Pacific University of Technology and Innovation, Malaysia, January 2025.
- [8] N. Revathi, R. Nithyakala, (2025). A swarm based discrete optimization approach for the Maximum subgraph problem National conference on interdisciplinary approaches in Mathematics, Physics and Computer Science (NCIAMPC-2025), Marudhupandiyar College, Thanjavur, March 2025.
