

**Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio - Data**



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|-----------------------------------|--|
| Name of the Department | : MATHEMATICS |
| Name of the faculty member | : Dr. S. NITHYANANTHA JOTHI |
| Qualification | : M.Sc., MPhil., PGDCA., Ph.D |
| Present Designation | : ASSOCIATE PROFESSOR |
| Vidwan id | : 251293 |
| Residential Address | : 2/75, Annai Theresa street, Virapandianpatnam, Tiruchendur-628 216. |
| Contact Nos. | : 9442460057 |
| Email | : nithananthajothi@gmail.com |
| Gender | : Female |
| Community | : BC |
| Date of Birth and Age | : 02.06.1974 |
| Date of joining | : 16.06.2008 |
| Date of Retirement | : 30.06.2023 |

I. Particulars of Educational Qualification :

| Category | Name of the Degree | Specialization | Year of Passing | Name of the College | Name of the University | % of Marks / Grades obtained | Class obtained |
|----------|--------------------|----------------|-----------------|---|--|------------------------------|----------------|
| UG | B.Sc | Mathematics | 1994 | Aditanar College of Arts and Science, Tiruchendur | Manonmaniam Sundaranar University, Tirunelveli | 80% | First |
| PG | M.Sc | Mathematics | 1996 | Aditanar College of Arts and Science, Tiruchendur | Manonmaniam Sundaranar University, Tirunelveli | 73% | First |
| M. Phil | | Mathematics | 1997 | Aditanar College of Arts and Science, Tiruchendur | Manonmaniam Sundaranar University, Tirunelveli | 80.66% | First |

Other Academic Qualification :

| Name of the Degree | Year of Passing | Name of the University | % of Marks / Grades obtained | Class obtained |
|--------------------|-----------------|--|------------------------------|----------------|
| PGDCA | 2000 | Manonmaniam Sundaranar University, Tirunelveli | 60.4% | First class |

Research Degree :

| Degree | Title | Date and year of award | University |
|--------|--|------------------------------|--|
| Ph.D. | Contributions to binary topological spaces | 7 th October 2013 | Manonmaniam Sundaranar University, Tirunelveli |

Title of Ph.D. Thesis : Contributions to binary topological spaces

Subject in which Ph.D. was awarded : Topology(Mathematics)

No. of candidates doing Ph.D. under my Guidance : 4

List of Publications

1. S.Nithyanantha Jothi and P.Thangavelu Topology between two sets Journal of Mathematical Sciences and Computer Applications 1(3)(2011),95-107
2. S.Nithyanantha Jothi and P.Thangavelu On Binary Topological Spaces Pacific – Asian Journal of Mathematics 5(2)(2011).133-138
3. S.Nithyanantha Jothi and P.Thangavelu On binary continuity and binary separation axioms Ultra-Scientist Of Physical Sciences 24(1)A,(2012),121-126
4. S.Nithyanantha Jothi and P.Thangavelu Binary-T1/2 spaces Acta Cienca Indica VoIXLIM.No.3(2015)
5. S.Nithyanantha Jothi and P.Thangavelu Generalized binary closed sets in binary Topological Ultra-Scientist Of Physical Sciences 26(1)A,(2014),25-30
6. S.Nithyanantha Jothi Generalized Binary Regular closed sets International Journal of Applied Sciences Vol.04,issue 02(2016)259-263 . ISSN number 2455-4499
7. S.Nithyanantha Jothi Binary Semi open sets in binary Topological spaces International Journal of Mathematical Archive 7(9)(2016),73-76
8. S.Nithyanantha Jothi Binary Semi continuous functions IJMTT Volume 49,Number2 Sept(2017)
9. S. Malathi and S. Nithyanantha Jothi, "On c^* -open sets and generalized c^* -closed sets in topological spaces", Acta Ciencia Indica, Vol. XLIII M, No.2, 125 (2017), 125-133.
10. S. Malathi and S. Nithyanantha Jothi, "On generalized c^* -open sets and generalized c^* -open maps in topological spaces", Int. J. Mathematics and its Applications, Vol. 5, issue 4-B (2017), 121-127.
11. S. Malathi and S. Nithyanantha Jothi, "On generalized c^* -continuous functions and generalized c^* -irresolute functions in topological spaces, Turkish Journal of Analysis and Number Theory, Vol. 6, no.6, (2018), 164-168.
12. S. Malathi and S. Nithyanantha Jothi, "On Pre-generalized c^* -closed sets in topological spaces", Journal of Computer and Mathematical Sciences, Vol.8 (12), (2017), 720-726.
13. S. Malathi and S. Nithyanantha Jothi, "On Pre-generalized c^* -open sets and Pre-generalized c^* -open maps in topological spaces", Int. J. Mathematical Archive, Vol.8 (12) (2017), 66-70.
14. S. Malathi and S. Nithyanantha Jothi, "On Pre-generalized c^* -continuous functions and Pre-generalized c^* -irresolute functions in topological spaces", Mathematical Sciences International Research Journal, Vol. 7, Spl issue 4, (2018), 17-22.
15. S. Malathi and S. Nithyanantha Jothi, "On generalized c^* -neighbourhoods and generalized c^* -homeomorphisms in topological spaces", Proceedings of National Conference on Innovation in Mathematics (NCIM-2018), 87-95.
16. S. Malathi and S. Nithyanantha Jothi, "On Pre-generalized c^* - homeomorphisms in topological spaces, Journal of Ultra Scientist of Physical Sciences, JUSPS-A Vol. 30(11) (2018), 395-400.
17. S. Malathi and S. Nithyanantha Jothi, "On Pre-generalized c^* -neighbourhoods in topological spaces", Proceedings of instructional School on Emerging Trends in Advanced Mathematics, (2019), 63-67.
18. S.Malathi and S. Nithyanantha Jothi, "On Contra-generalized c^* -continuous functions in topological spaces", Proceedings of National Seminar on New Dimensions in Mathematics and its Applications, (2019), 30-37.
19. S. Malathi and S. Nithyanantha Jothi, "On Contra Pre-generalized c^* -continuous functions in topological spaces", Emerging Trends in pure and Applied Mathematics (Conference Proceedings), (2019), 53-59.
20. S.Sharmila and Dr.S. Nithyanantha Jothi, "Totally Supra β -Continuous and Slightly Supra β -Continuous Functions", Proceedings of instructional School on Emerging Trends in Advanced Mathematics, (2019), 35
21. S.Sharmila and Dr.S. Nithyanantha Jothi, "Some continuous and homeomorphism maps and separation Axioms in supra Topological spaces via supra β open sets", Proceedings of the International conference on Graph Theory and its Applications (ICGTA19)(2019)1-8

22. S.Sharmila and Dr.S. Nithyanantha Jothi, "Some Maps Via Supra β - open sets", International Journal of Engineering and Science Research , Vol-9,Issue-3(2019), 29-33. www.ijesr.org
23. S.Sharmila and Dr.S. Nithyanantha Jothi, "Further Study on Supra β -irresolute Maps", International Journal for Science and Advance Research in Technology , Vol-5,Issue-5(2019), 48-53. www.ijesart.com
24. S.Muthu Lakshmi and Dr.S. Nithyanantha Jothi "On Supra Pre-separated and Supra Pre—Connected sets in Supra Topological spaces " Proceedings of the instructional School on Emerging Trends in Advanced Mathematics, (2019), 84-88
25. S.Muthu Lakshmi and Dr.S. Nithyanantha Jothi "Further study on Supra Pre-connected sets in Topological spaces " International Journal for Science and Advance Research in Technology , Vol-5,Issue-4(2019), 49-51. www.ijesart.com
26. J.Anitha and Dr.S. Nithyanantha Jothi "The Theta Generalized b-closed sets in Topological Spaces "Proceedings of National Conference on Advances in Mathematics NCAM- 2020, 6-7.
27. S.Ezhil Jeba and Dr.S. Nithyanantha Jothi "Delta weakly Generalized closed sets in Topological spaces " Proceedings of National Conference on on Advances in Mathematics NCAM- 2020, 8-9.
28. A.Abishek Ashish Gnanadev and S. Nithyanantha Jothi "Delta weakly Generalized* -closed sets in Topological spaces ",International Journal of All Research Education and Scientific Methods,Volume9,Issue7 July-2021,1977-1981. www.ijaresm.com
29. S.Nithyanantha Jothi "**Binary contra continuous and Binary Contra semi continuous in Binary Topological spaces**", International Journal Of Mathematical Trends and Technology,Volume 68 Issue3,90-93 March2022, ISSN-2231-5373.<https://doi.org/10.14445/22315373/IJMTT-V6813P514>.

V Academic Experience:

| Name of the College | Whether Govt/Aided/S.F. | Designation | Joining Date | Relieving Date | Experience | | |
|------------------------------|-------------------------|---------------------|--------------|----------------|------------|----------|-----------|
| | | | | | Years | Months | Days |
| ADITANAR COLLEGE TIRUCHENDUR | Management | Lecturer | 16.02.2000 | 19.06.2000 | - | 4 | 3 |
| ADITANAR COLLEGE TIRUCHENDUR | Management | Lecturer | 26.07.2000 | 15.06.2008 | 7 | 11 | 19 |
| ADITANAR COLLEGE TIRUCHENDUR | Aided | ASSISTANT PROFESSOR | 16.06.2008 | — | 15 | 4 | 2 |
| Total | | | | | 23 | 7 | 24 |

List of scholars doing Ph.D:

1. A. Abishek Ashish Ganadev , Register No. 22122022091003 (Part Time)
2. B. Sorna Praba, Register No. 22122022092004 (Part Time)
3. R. BalajiSrinivas , Register No. 22112022091001 (Full Time)
4. K. Mathivathani, Register No. 22222022092001 (Part Time)

Research papers published in the Journals :

| S.No | Title of paper | Name of the authors | Name of journal | Volume, Issue, Page No, Year | ISSN number | Is it listed in UGC Care list |
|------|--|---------------------------------------|--|---|----------------|-------------------------------|
| 1 | Topology between two sets | S.Nithyanantha Jothi and P.Thangavelu | Journal of Mathematical Sciences and Computer Applications | 1(3)(2011),95-107 | | |
| 2 | On Binary Topological Spaces | S.Nithyanantha Jothi and P.Thangavelu | Pacific – Asian Journal of Mathematics | 5(2)(2011).133-138 | | |
| 3 | On binary continuity and binary separation axioms | S.Nithyanantha Jothi and P.Thangavelu | Ultra-Scientist Of Physical Sciences | 24(1)A,(2012), 121-126 | ISSN 0970-9150 | |
| 4 | Binary- $T_{1/2}$ spaces | S.Nithyanantha Jothi and P.Thangavelu | Acta Cienca Indica | VoIXLIM.No.3 (2015) | ISSN 0970-0455 | |
| 5 | Generalized binary closed sets in binary Topological spaces | S.Nithyanantha Jothi and P.Thangavelu | Ultra-Scientist Of Physical Sciences | 26(1)A,(2014), 25-30 | ISSN 2231-346X | |
| 6 | Generalized Binary Regular closed sets | S.Nithyanantha Jothi | International Journal of Applied Sciences | Vol.04,issue 02(2016) 259-263 | 2455-4499 | |
| 7 | Binary Semi open sets in binary Topological spaces | S.Nithyanantha Jothi | International Journal of Mathematical Archive | 7(9)(2016),73-76 | ISSN 2229-5046 | |
| 8 | Binary Semi continuous functions | S.Nithyanantha Jothi | IJMTT | Volume 49,Number2 Sept(2017) | ISSN 2231-5373 | UGC Approved Journal in2017 |
| 9 | On c^* -open sets and generalized c^* -closed sets in topological spaces | S. Malathi and S.Nithyanantha Jothi | Acta Ciencia Indica | Vol. XLIII M, No.2, 125 (2017), 125-133 | ISSN 0970-0455 | |
| 10 | On generalized c^* -open sets and generalized c^* -open maps in topological spaces | S. Malathi and S.Nithyanantha Jothi | Int. J. Mathematics and its Applications | Vol. 5, issue 4-B (2017), 121-127 | ISSN 2347-1557 | |
| 11 | On generalized c^* -continuous functions and generalized c^* -irresolute functions in topological spaces | S. Malathi and S.Nithyanantha Jothi | Turkish Journal of Analysis and Number Theory | Vol. 6, no.6, (2018), 164-168 | | |

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|----|--|---|--|---|----------------|--------------------------------------|
| 12 | On Pre-generalized c^* -closed sets in topological spaces | S. Malathi and S.Nithyanantha Jothi | Journal of Computer and Mathematical Sciences | Vol.8 (12), (2017),720-726 | ISSN 0976-5727 | |
| 13 | On Pre-generalized c^* -open sets and Pre-generalized c^* -open maps in topological spaces | S. Malathi and S.Nithyanantha Jothi | Int.J. Mathematical Archive | Vol.8 (12) (2017), 66-70 | ISSN 2229-5046 | |
| 14 | On Pre-generalized c^* -continuous functions and Pre-generalized c^* -irresolute functions in topological spaces | S. Malathi and S.Nithyanantha Jothi | Mathematical Sciences International Research Journal | Vol. 7, Spl issue 4, (2018), 17-22. | 2278-8697 | UGC Approved Journal-Journal no43832 |
| 15 | On Pre-generalized c^* -homeo morphisms in topological spaces | S. Malathi and S.Nithyanantha Jothi | Journal of Ultra Scientist of Physical Sciences JUSPS-A Vol. 30(11) (2018), 395-400 | JUSPS-A Vol. 30(11) (2018), 395-400 | ISSN-2231-346X | |
| 16 | Some Maps Via Supra β - open sets | S.Sharmila and S.Nithyanantha Jothi | International Journal of Engineering and Science Research , | Vol-9,Issue-3(2019), 29-33 www.ijesr.org | ISSN:2277-2685 | |
| 17 | Further Study on Supra β -irresolute Maps | S.Sharmila and S.Nithyanantha Jothi | International Journal for Science and Advance Research in Technology | Vol-5,Issue-5(2019), 48-53. www.ijesart.com | 2395-1052 | |
| 18 | Further study on Supra Pre-connected sets in Topological spaces | S.Muthu Lakshmi and S. Nithyanantha Jothi | International Journal for Science and Advance Research in Technology | Vol-5,Issue-4 (2019),49-51 www.ijesart.com | 2395-1052 | |
| 19 | Binary contra continuous and Binary Contra semi continuous in Binary Topological spaces | S.Nithyanantha Jothi | International Journal Of Mathematical Trends and Technology, Vol ume 68 Issue3,90-93 March2022, ISSN-2231-5373 | Volume 68 Issue3,90-93 March2022, ISSN-2231-5373 | ISSN-2231-5373 | |

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|----|---|--|--|---|----------------|--|
| 20 | Delta weakly Generalized* - closed sets in Topological spaces | A.Abishek Ashish Gnanadev and S.Nithyanantha Jothi | International Journal of All Research Education and Scientific Methods | Volume9, Issue7 July-2021, 1977-1981. www.ijaresm.com | ISSN:2455-6211 | |
|----|---|--|--|---|----------------|--|

Book chapters or Papers published in national/international conference/Seminar/ workshop proceedings

| S.No | Title of the Chapter/ paper | Name of the authors | Title of the Book/ Proceedings of the conference | Name of the conference | National/ International | Year of publication | ISBN number of Book/ proceedings | Publisher/Affiliating Institute at the time of Publication |
|------|--|------------------------------------|--|--|-------------------------|---------------------|----------------------------------|--|
| 1 | On generalized c^* -neighbourhoods and generalized c^* -homeomorphisms in topological spaces | S.Malathi and S.Nithyanantha Jothi | Proceedings of National Conference on Innovation in Mathematics (NCIM-2018) | NCIM-2018 | National | NCIM-2018, 87-95. | | Sadakathullah Appa Educational Society, Sadakathullah Appa College(Autonomous) Rahmath Nagar, Tirunelveli-627011 |
| 2 | On Pre-generalized c^* -neighbourhoods in topological spaces | S.Malathi and S.Nithyanantha Jothi | Proceedings of Instructional School on Emerging Trends in Advanced Mathematics | ISETAM-2019 | National | 2019, 63-67 | | PG Research Department of Mathematics St.Mary's College(autonomous) Thoothukudi |
| 3 | On Contra-generalized c^* -continuous functions in topological spaces | S.Malathi and S.Nithyanantha Jothi | National Seminar on New Dimensions in Mathematics and its Applications(17 th October 2018) | New Dimensions in Mathematics and its Applications, (17 th October 2018). | National | 2018, 30-37. | 978-93-5346-948-1 | Department of Mathematics Kamaraj College, Thoothukudi |
| 4 | On Contra Pre-generalized c^* -continuous functions in topological spaces | S.Malathi and S.Nithyanantha Jothi | Emerging Trends in pure and Applied Mathematics, Article presented in the Proceedings of the International conference on Graph | (ICGTA19) 2019, 53-59. | International | 2019, 53-59. | ISBN No:978-81-938054-7-3 | Sadakathullah Appa Educational Society Sadakathullah Appa College(Autonomous) Rahmath Nagar, Tirunelveli-627011 |

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|---|--|---|--|----------------|---------------|-------------|---------------------------|---|
| | | | Theory and its Applications (ICGTA19) | | | | | |
| 5 | Totally Supra β -Continuous and Slightly Supra Supra β -Continuous Functions | S.Sharmila and S. Nithyanantha Jothi | Proceedings of Instructional School on Emerging Trends in Advanced Mathematics | ISETAM-2019 | National | (2019), 35 | | PG Research Department of Mathematics St.Mary's Colllege(autonomous) Thoothukudi |
| 6 | Some continuous and homeomorphism maps and separation Axioms in supra Topological spaces via supra β open sets | S.Sharmila and S. Nithyanantha Jothi | Proceedings of the International conference on Graph Theory and its Applications (ICGTA19) | (ICGTA19) 2019 | International | (2019)1-8 | ISBN No:978-81-938054-7-3 | Sadakathullah Appa Educational Society Sadakathullah Appa College(Autonomous) Rahmath Nagar, Tirunelveli-627011 |
| 7 | On Supra Pre-separated and Supra Pre-Connected sets in Supra Topological spaces | S.Muthu Lakshmi and S. Nithyanantha Jothi | Proceedings of Instructional School on Emerging Trends in Advanced Mathematics | ISETAM-2019 | National | 2019, 84-88 | | PG Research Department of Mathematics St.Mary's Colllege(autonomous) Thoothukudi |
| 8 | The Theta Generalized b-closed sets in Topological Spaces | J.Anitha and S. Nithyanantha Jothi | National Conference on Advances in Mathematics 2020 | NCAM- 2020 | National | 2020, 6-7 | | PG Research Department of Mathematics St.Mary's Colllege(autonomous) Thoothukudi |
| 9 | Delta weakly Generalized closed sets in Topological spaces | S.Ezhil Jeba and S. Nithyanantha Jothi | National Conference on Advances in Mathematics 2020 | NCAM- 2020 | National | 2020, 8-9 | | PG Research Department of Mathematics St.Mary's Colllege(autonomous) Thoothukudi |

It is certified that all the information provided are true to the best of my knowledge.



Signature of the Faculty