

## Profile

Name : Dr. A R. Manikandan  
Date of Birth : 06-03-1988  
Address (Residential) : CARDAMOM PLANTERS' ASSOCIATION COLLEGE,  
PANKAJAM NAGER, BODINAYAKANUR, THENI-625513  
Email. : arm.manicpa@gmail.com,  
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Designation : Assistant Professor  
Department : Mathematics  
Area of Specialization : FUZZY MATHEMATICS, FUNCTIONAL ANALYSIS, LINEAR  
ALGEBRA



### Academic details:

S.No.	Degree	University/ College	Branch	Month & year of Completion	CGPA/ Percentage/ Class
1	Ph.D.	BHARATHIDASAN UNIVERSITY	MATHEMATICS	MAY - 2015	HIGHLY COMMENDED
2	M.Phil.	BHARATHIDASAN UNIVERSITY & JAMAL MOHAMED COLLEGE	MATHEMATICS	SEP - 2011	FIRST CLASS
3	M.Sc	BHARATHIDASAN UNIVERSITY	MATHEMATICS	APR - 2010	FIRST CLASS
4	B.Sc	PERIYAR UNIVERSITY & SENGUNTHAR ARTS AND SCIENCE COLLEGE	MATHEMATICS	APR - 2008	FIRST CLASS

### Experience:

S.No.	College	From	To	Duration
1	CPA College	03-02-2020	Till	4 Years 6 Months 28 Days
2	Cardamom Planters' Association College	01-06-2019	02-02-2020	8 Months 6 Days
3	SENGUNTHAR ARTS & SCIENCE COLLEGE, TIRUCHENGODE	18-06-2015	15-05-2019	3 Years 11 Months 2 Days

### Details of the Orientation and Refresher Courses attended:

S.No.	Course	Academic Staff College	Period
1	Online Short Term Course	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE, PUDUCHERRY	04.09.2023 TO 08.09.2023
2	Online Short Term Course	CAUVERY COLLEGE FOR WOMEN (AUTO)	11.09.2023 TO 15.09.2023
3	Online Short Term Course	OP JINDAL UNIVERSITY, RAIGARH, CHHATTISGARH	09.10.2023 TO 13.10.2023
4	Online Short Term Course	ST.JOSEPH'S COLLEGE (ARTS & SCIENCE)	27-02-2024 TO 04-03-2024

5	Short Term Course	HINDUSTHAN INSTITUTE OF TECHNOLOGY, COIMBATORE	27.03.2023 TO 01.04.2023
6	Refresher Course	RAMANUJAN COLLEGE (UNIVERSITY OF DELHI)	22.05.2023 TO 05.06.2023
7	Orientation Course	MADURAI KAMARAJ UNIVERSITY	01.12.2021 TO 30.12.2021
8	Online Refresher Course	UGC â€“ Human Resource Development Centre, Madurai Kamaraj University	12 week

### Award:

S.No.	Date	Award name	Sponsor Organization
1	13-03-2024	SHOT PUT FOR PROFESSORS- SECOND PLACE	CARDAMOM PLANTERS' ASSOCIATION COLLEGE
2	25-04-2023	RESEARCH PAPER PUBLICATION- SPECIAL CASH AWARD	CARDAMOM PLANTERS' ASSOCIATION COLLEGE
3	24-03-2023	SHOT PUT FOR PROFESSORS- SECOND PLACE	CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
4	08-06-2022	RESEARCH PAPER PUBLICATION- SPECIAL CASH AWARD	CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR

### List of Publications:

1. A R. Manikandan, " Self-Adjoint Fuzzy Linear Operator in a Fuzzy Hilbert Space", ATOMIC SPECTROSCOPY, Volume 44, Number(3), 2024, p-ISSN: 0195-5373, e-ISSN 2708-521X, page no. 90-93.
2. A R. Manikandan, " CAUCHY SEQUENCE IN FUZZY BI-NORMED LINEAR SPACES ", Stochastic Modeling & Applications , Vol. 26 No. 3 (January - June, Special Issue 2022 Part - 2), ISSN: 0972-3641, page no. 1455-1458.
3. A R. Manikandan, " The Moore Penrose Inverse and Spectral Inverse of Fuzzy Matrices ", International Journal of Difference Equations (IJDE) , Volume 16, Number 2, ISSN 0973-6069, page no. 205-218.
4. A R. Manikandan, " SOME RESULTS ON FUZZY MATRICES", 4TH INTERNATIONAL SEMINAR, KSR COLLEGE OF ARTS & SCIENCE FOR WOMEN, December 10, 2019, 978-0-359-26035-5, page no. 425-435.
5. A.NAGGOR GANI and A R. MANIKANDAN, " SOME INEQUALITY OF FUZZY MATRICES", American International Journal of Research in Science, Technology, Engineering & Mathematics, (ICOMAC - 2019), February 20-21, 2019, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, page no. .
6. A.NAGGOR GANI and A R. MANIKANDAN, " SOME RESULTS ON FUZZY MATRIX 1,2,P-NORMS", American International Journal of Research in Science, Technology, Engineering & Mathematics,, (ICOMAC - 2019), February 20-21, 2019, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580,, page no. page no.1.
7. A R. Manikandan, " CAUCHY SEQUENCE IN FUZZY BI-NORMED LINEAR SPACE", 4TH INTERNATIONAL SEMINAR, KSR COLLEGE OF ARTS & SCIENCE FOR WOMEN, December 10, 2018, 978-0-359-26035-5, page no. 418-424.
8. A.Nagoorgani, A.R.Manikandan and L.Chitra, " FINITE DIMENSIONAL FUZZY BI-NORMED LINEAR SPACE", International Journal of Pure and Applied Mathematics, Volume 118 No. 6 2018,, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line , page no. 475-481.

9. A. Nagoor Gani, K. Kannan and A. R. Manikandan, " INNER PRODUCT OVER FUZZY MATRICES", Journal of Mathematics, Volume 2016, Article ID 6521893,, 2314-4785, page no. 10 pages.
10. A. NAGGOR GANI and A R. Manikandan, " ON BI-NORMED FUZZY MATRICES", Advances in Fuzzy Sets and Systems, Volume 18, Number 2, 2014, ISSN: 0973-421X, page no. Pages 101-.
11. A. NAGGOR GANI and A R. Manikandan, " SPECTRAL INVERSE OF FUZZY MATRICES", Jamal Academic Research Journal (JARJ), Vol. 7, No. 1, 2014, ISSN: 2320-3242 (P), page no. Pages 13-1.
12. A. NAGGOR GANI and A R. Manikandan, " DET-NORM ON FUZZY MATRICES", International Journal of Pure and Applied Mathematics, Volume 92 No. 1 2014, ISSN: 1314-3395, page no. pages 1-12.
13. A. NAGGOR GANI and A R. Manikandan, " INTEGRALS OVER FUZZY MATRICES", International Journal of Mathematical Sciences and Engineering Applications (IJMSEA), Vol. 7 No. VI (November, 2013), ISSN 0973-9424, page no. pp. 225-23.
14. A. NAGGOR GANI and A R. Manikandan, " ON FUZZY DET-NORM MATRIX", Journal of Mathematical and Computational Science, 3 (2013), No. 1, ISSN: 1927-5307, page no. Page no. 2.

## **Participation:**

1. National level E-Quizzes on "NATIONAL SPACE DAY QUIZ : Celebrating India's Stellar Achievements in Space Technology ", August 24, 2024, NATIONAL WATER ACADEMY (NWA) , CENTRAL WATER COMMISSION, PUNE.
2. National level E-Quizzes on "NATIONAL SPACE DAY ", August 23, 2024, GOVERNMENT ARTS & SCIENCE COLLEGE, VEERAPANDI, THENI.
3. International level Conference on " DISCRETE MATHEMATICS AND COMPUTATIONAL TECHNIQUES ", August 14, 2024, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, UTHAMAPALAYAM.
4. National level Faculty Development Programme on " FOUNDATIONAL SCIENCES : THE CORNERSTONES OF ENGINEERING ", August 8-10, 2024, SPOORTHY ENGINEERING COLLEGE, HYDERABAD.
5. National level Webinar on " NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION ", August 6, 2024, INTELLECTUAL PROPERTY OFFICE, TAMIL NADU.
6. State level Faculty Development Programme on " DIGITAL PRODUCTIVITY AND AL FLUENCY ", July 1-5, 2024, MICROSOFT IN PARTNERSHIP NAAN MUDHALVAN, TAMIL NADU.
7. National level Webinar on " RECENT PROGRESS IN MATHEMATICS SCIENCES ", March 14, 2024, Government Engineering College, Bhojpur, Bihar.
8. National level Faculty Development Programme on " E- CONTENT DEVELOPMENT ", February 12-16, 2024, SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN, UDUMALPET.
9. National level Conference on " APPLICATIONS OF MATHEMATICS IN DIGITAL ERA ", October 6, 2023, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, UTHAMAPALAYAM, THENI.
10. University level Webinar on " PERFECTING THE ART OF WRITING RESEARCH PAPER ", September 22, 2023, SRM FACULTY OF SCIENCE AND HUMANITIES, VADAPALANI.
11. International level Webinar on " EMERGING TRENDS IN MATHEMATICS ", September 13, 2023, JAYARAJ ANNAPACKIAM COLLEGE FOR WOMEN (AUTONOMOUS), PERIYAKULAM, THENI.
12. National level Seminar on " RECENT TRENDS IN MATHEMATICS AND STATISTICS ", March 15, 2023, K.S.R COLLEGE OF ARTS AND SCIENCE FOR WOMEN'S, Thiruchengode.
13. University level ONE DAY TRAINING PROGRAMME on " PUBLIC FINANCIAL MANAGEMENT SYSTEM ", March 8, 2023, MADURAI KAMARAJ UNIVERSITY, MADURAI.
14. State level Workshop on "INTELLECTUAL PROPERTY RIGHT ", February 22, 2023, CARDAMOM PLANTERS' ASSOCIATION COLLEGE , BODINAYAKANUR, THENI.
15. State level E-Quizzes on " NATIONAL MATHEMATICS DAY - 2K22 ", December 22, 2022, HINDUSTHAN COLLEGE OF ARTS & SCIENCE, COIMBOTORE.
16. International level E-Quizzes on " Ramanujan's Birthday Celebration - 2022 ", December 21, 2022, V. H. N. SENTHIKUMARA NADAR COLLEGE, VIRUDHUNAGAR.

17. National level Webinar on " NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION ", November 10, 2022, INTELLECTUAL PROPERTY OFFICE, INDIA-TAMIL NADU.
18. E-Quizzes on " ONLINE QUIZ ON INDIAN MOVEMENT ", August 11-13, 2022, CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR.
19. National level Conference on " "Regression model with outliers" ", May 14, 2022, NADAR MAHAJANA SANGAM SERMATHAI VASAN COLLEGE FOR WOMEN, AVANIYAPURAM, MADURAI-625012.
20. State level TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION on " IN-SERVICE TEACHER TRAINING PROGRAMME ", May 5-6, 2022, SRI MEENAKSHI GOVT-ARTS COLLEGE FOR WOMEN, MADURAI.
21. Webinar on " FUZZY NUMBERS AND EXCELLENT GROPHS ", January 19, 2022, SETHU INSTITUTE OF TECHNOLOGY, PULLOOR-KARIAPTTI.
22. National level Webinar on " CROSSING NUMBER OF GRAPHS ", October 28, 2021, DURGAPUR GOVT. COLLEGE, Paschim Bardhaman, West Bengal.
23. National level Webinar on " PRANAYAMA - THE ART OF LIVING ", June 21, 2021, CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR.
24. E-Quizzes on " e MATH QUIZ - PHASE -1 ", April 27, 2021, JP COLLEGE OF ARTS AND SCIENCE, TIRUNELVLI.
25. Webinar on " A PART OF CONTINUUM MECHANICS IN OUR DAY TO LIFE ", March 20, 2021, ARASU ENGINEERING COLLEGE, KUMBAKONAM.
26. University level Workshop on " Math in MATLAB ", February 2, 2021, Karpagam Academy of Higher Education, Coimbatore.
27. National level Faculty Development Programme on " E-CONTENT ", July 6-8, 2020, CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR.
28. International level Seminar on " SELECTION OF APROPRIATE STATISTICAL TOOLS ", May 12, 2020, ST.MARY'S COLLEGE, THOOTHUKUDI.
29. International level Conference on " ICOMAC 2019 ", February 20-21, 2019, JAMAL MOHAMED COLLEGE, TRICHY.
30. International level Seminar on " FOURTH INTERNATIONAL SEMINAR-TEM-2018 ", December 10, 2018, KSR COLLEGE OF ARTS AND SCIENCE FOR WOMEN, TIRUCHENGODE.
31. International level Seminar on " FOURTH INTERNATIONAL SEMINAR-TEM 2018 ", December 10, 2018, KSR COLLEGE OF ARTS AND SCIENCE FOR WOMEN, TIRUCHENGODE.
32. National level Seminar on " INNOVATIVE TRENDS IN MATHEMATICS AND ITS APPLICATIONS ", February 2, 2018, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE.
33. International level Conference on " ICOMAC 2017 ", December 11, 2017, JAMAL MOHAMED COLLEGE, TRICHY.
34. Faculty Development Programme on " Faculty Development Programme on Art of Writing Research Articles ", October 22, 2016, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE.
35. National level Seminar on " NATIONAL SEMINAR ON RECENT ADVANCEMENTS IN GRAPH THEORY ", September 30, 2016, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE.
36. University level Seminar on " TRAINING PROGRAMME ON URKUND ", August 9, 2016, PERIYAR UNIVERSITY, SALEM.
37. National level Workshop on " FUZZY MATHEMATICS & GRAPH THEORY ", October 30, 2015, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE.
38. International level Conference on " ICOMAC 2015 ", January 22-23, 2015, JAMAL MOHAMED COLLEGE, TRICHY.
39. International level Conference on " INTERNATIONAL CONFERENCE ON MATHEMATICAL METHOD AND COMPUTATION ", February 13-14, 2014, JAMAL MOHAMED COLLEGE, TRICHY.
40. National level Seminar on " DISCRETE MATHEMATICS AND ITS APPLICATIONS ", March 9, 2013, JAMAL MOHAMED COLLEGE, TRICHY.

41. University level Workshop on " MATHEMATICAL MODELING ", January 19-24, 2011, JAMAL MOHAMED COLLEGE, TRICHY.

### Presentation:

1. International level Conference on " DISCRETE MATHEMATICS AND COMPUTATIONAL TECHNIQUES ", August 14, 2024, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, UTHAMAPALAYAM, THENI., presented title as "ON GENERALIZED INVERSE OF K-REGULARITY OF BLACK FUZZY MATRICES".
2. National level Conference on "APPLICATIONS OF MATHEMATICS IN DIGITAL ERA ", October 6, 2023, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, UTHAMAPALAYAM, THENI., presented title as " GENERALIZED INVERSE OF SOFT FUZZY MATRICES".
3. International level Conference on "ICOMAC 2019 ", February 12-13, 2019, JAMAL MOHAMED COLLEGE, TRICHY., presented title as " SOME RESULTS ON FUZZY MATRIX 1,2,P- NORMS".
4. International level Conference on "ICOMAC 2019 ", February 2-3, 2019, JAMAL MOHAMED COLLEGE, TRICHY., presented title as " SOME INEQUALITY OF FUZZY MATRICES".
5. International level Conference on "FOURTH INTERNATIONAL SEMINAR-TEM 2018 ", December 10, 2018, KSR COLLEGE OF ARTS AND SCIENCE FOR WOMEN, TIRUCHENGODE., presented title as " CAUCHY SEQUENCE IN FUZZY BI-NORMED LINEAR SPACE".
6. International level Conference on "FOURTH INTERNATIONAL SEMINAR-TEM 2018 ", December 10, 2018, KSR COLLEGE OF ARTS AND SCIENCE FOR WOMEN, TIRUCHENGODE., presented title as " SOME RESULTS ON FUZZY NORM MATRICES".
7. National level Seminar on "INNOVATIVE TRENDS IN MATHEMATICS AND ITS APPLICATIONS ", February 2, 2018, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE., presented title as " ON SOME FUZZY CONE METRIC SPACE AND ITS APPLICATIONS".
8. International level Conference on "ICOMAC 2017 ", December 11, 2017, JAMAL MOHAMED COLLEGE, TRICHY., presented title as " FINITE DIMENSIONAL FUZZY BI-NORMED LINEAR SPACE".
9. National level Seminar on "RECENT ADVANCEMENTS IN GRAPH THEORY ", September 30, 2016, SENGUNTHAR ARTS AND SCIENCE COLLEGE, , TIRUCHENGODE., presented title as " ON GENERALIZED INVERSE OF FUZZY MATRICES".
10. International level Conference on "ICOMAC 2014 ", February 13-14, 2014, JAMAL MOHAMED COLLEGE, TRICHY., presented title as " THE MOORE PENROSE INVERSE AND SPECTRAL INVERSE OF FUZZY MATRICES".

### Resource Person:

1. National level Seminar on " ONE DAY NATIONAL SEMINAR ON ANALYSIS AND ITS APPLICATIONS ", September 8, 2015, DON BOSCO COLLEGE, DHARUMAPURI.

### Programmes Organized:

S.No.	Position	Programme	Date	Name	Institution	Place
1	Programme Officer	BLOOD DONATION CAMP	September 25, 2023	TAMIL NADU BLOOD TRANSFUSION COUNCIL	CARDAMOM PLANTERS' ASSOCIATION COLLEGE	BODINAYAKANUR, THENI

2	Coordinator	DRUG PREVENTION AWARENESS	August 10, 2022	DRUG PREVENTION AWARENESS-DRAWING COMPETITION	CARDAMOM PLANTERS' ASSOCIATION COLLEGE	BODINAYAKANUR
3	Secretary	Workshop	September 30, 2015	FUZZY MATHEMATICS AND GRAPHY THEORY	SENGUNTHAR ARTS AND SCIENCE COLLEGE,	TIRUCHENGODE

## Membership :

1. Programme Officer - NSS, 2023-07-18 (2024), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
2. Member - DISCIPLINE COMMITTEE, 2024-03-05 (2024), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
3. Member - HOSTEL STOCK VERIFICATION COMMITTEE, 2024-07-15 (2024), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
4. External Examiner - Exam paper valuation, 2024-07-15 (2024), MADURAI KAMARAJ UNIVERSITY, MADURAI
5. Member - NAAC, 2023-10-06 (2023), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
6. Programme Officer - NSS, 2022-07-18 (2023), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
7. External Examiner - Exam paper valuation, 2023-07-26 (2023), MADURAI KAMARAJ UNIVERSITY, MADURAI
8. Member - EDITORIAL BOARD MEMBER (REVIEWER), 2023-11-03 (2023), Journal of Intelligent & Fuzzy Systems
9. Programme Officer - NSS, 2022-07-18 (2022), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, MADURAI KAMARAJ UNIVERSITY
10. External Examiner - Ph.D. Pre Viva Voce, 2022-09-23 (2022), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
11. Member - EDITORIAL BOARD MEMBER (REVIEWER), 2023-04-16 (2023), Journal of Intelligent & Fuzzy Systems
12. Member - Placement, 2022-06-05 (2022), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
13. Member - STOCK VERIFICATION, 2022-05-21 (2022), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
14. Member - EDITORIAL BOARD MEMBER (REVIEWER), 2022-02-02 (2022), Mathematical Analysis and its Contemporary Applications
15. Member - COLLEGE DAY FUNCTION, 2022-05-27 (2022), CPA COLLEGE , BODINAYAKANUR
16. External Examiner - Exam paper valuation, 2022-02-10 (2022), MADURAI KAMARAJ UNIVERSITY, MADURAI
17. External Examiner - Exam paper valuation, 2022-02-21 (2022), MADURAI KAMARAJ UNIVERSITY, MADURAI
18. Member - EDITORIAL BOARD MEMBER (REVIEWER), 2021-10-10 (2021), Ratio Mathematica
19. Member - ENTREPRENEURSHIP DEVELOPMENT CENTRE(EDC), 2019-09-24 (2019), CARDAMOM PLANTERS' ASSOCIATION COLLEGE, BODINAYAKANUR
20. Nodal Officer - GENERAL ELECTIONS - POLLING OFFICERS 2, 2021-03-21 (2021), TMHNU MATRICULATION Hr.Sec. SCHOOL, mUTHUTHEVANPATTI
21. Member - EDITORIAL BOARD MEMBER (REVIEWER), 2019-11-12 (2020), Journal of Mathematics (Hindawi Manuscript )

