

Profile



Personal Information:

Name :Dr. S.ANDAL
Designation :Associate Professor of Mathematics
Department :Mathematics
E-Mail ID :andals@mannarcollege.ac.in,andalsravinassan@gmail.com
Contact No 9994906108
Date of Joining : 28.12.2007

I. Academic Qualifications:

Doctoral Research Ph.D

- **University:** Madurai Kamaraj University, Madurai
- **Title :** A Study on Fuzzy Assignment Problems Using Triangular Fuzzy Numbers.
- **Year:**2020

Master of Philosophy

- **University:** Alagappa University, Karaikudi
- **Title:** A Study on Polynomial Equations and Circulant Matrices.
- **Year:**2003

Post Graduation

- **University:** Madurai Kamaraj University, Madurai
- **Name of the College :** Sri S.Ramasamy Naidu Memorial College, Sattur
- **Degree:** Master of Science in Mathematics
- **Year:**2001

Under Graduation

- **University:** Manonmaniam Sundaranar University, Tirunelveli
- **Name of the College:** G.Venkatasamy Naidu College ,Kovilpatti.
- **Degree:** Bachelor of Science in Mathematics
- **Year:**1999

II. Teaching Experience:

- **Under-Graduate:**16years1month
- **Post Graduate:** 15years6 Months
- **From 28.12.2007** – Working as an Assistant professor of Mathematics in Mannar Thirumalai Naicker College, Madurai.

III. Area of Specialization:

- Fuzzy Optimization Techniques
- Number Theory

IV. Orientation /Refresher Courses/ Short Term Courses attended:

Orientation Programme:

- UGC Sponsored Orientation Programme at Madurai Kamaraj University from 14.05.2008 to 10.06.2008

Refresher Course:

- UGC Sponsored Refresher Course in Environmental Studies at Madurai Kamaraj University from 11.11.2008 to 01.12.2008
- UGC Sponsored Refresher Course in Mathematics at Madurai Kamaraj University, Madurai from 07.11.2013 to 27.11.2013.
- UGC Sponsored Refresher Course in Mathematics at Madurai Kamaraj University, Madurai from 10.11.2021 to 23.11.2021.
- UGC Sponsored Refresher Course in Mathematics and Statistics at Sardar Patel University, Gujarat from 14.11.2022 TO 27.11.2022.

V. Details of recognized research guides

S.No	Subject	Date & Month of award of Guideship	Guideship Number
1.	Mathematics	September 2023	2269/23

VI. Books/Chapters Published in edited Volumes:

Recent Trends in Mathematical Models published by Shanlax Publications (ISBN No: 978-93-80686-97-4).

VII. Papers Published in UGC notified Journals:

- A novel approach to Minimum cost flow of Fuzzy Assignment Problem with

Fuzzy Membership Functions , IRACST – Engineering Science and Technology
An International Journal (ESTIJ) ISSN :2250- 34498, Vol 6, No2,
Mar–Apr-2016.

- Analyze the certainty range (minimum and maximum) of FAP by Statistical Approach, IOSR Journal of Mathematics(IOSR–JM)e-ISSN2278-5728, p –ISSN : 2319- 765X , Volume 12, Issue 6, Ver VI (Nov-Dec 2016).
- On Novel approach to analyze the minimum fuzzy cost in RSA Method with statistical Prediction. International Journal of Mathematical Archive -8(5),2017, 80-86.
- A Novel approach to Analyze the Three Dimensional Interval Fuzzy Optimal Assignment Cost using Partition Method, Advances in Fuzzy Mathematics, ISSN 0973-533X, Volume 12, Number 5 (2017), Research India Publications.
- Non –Dominating Alternate path of Bi-Objective Fuzzy Assignment Problem, International Journal of Engineering Research in Computer Science Engineering (IJERCSE), Vol 5, Issue 3, March 2018, ISSN(Online) 2394 -2320.
- Minimizing the Employers Training Cost Using Skill Assignment Problem, Journal of Xi'an University of Architecture and Technology, ISSN : 1006-7930. volume XII, Issue III, 2020
- Time Series Analysis of Moving averages in Fuzzy Assignment Problem, Journal of Xi'an University of Architecture and Technology, ISSN : 1006-7930. volume XII, Issue III, 2020
- Optimal Decision making Analysis in Categorization of Heart Failure Patient Using Sensitivity Analysis, Journal of Xi' an University of Architecture and Technology, ISSN : 1006-7930, volume XII, Issue X, 2020
- Mathematical Model for Minimizing the cost in Employers Training using Assignment Problem, Journal of Physics, (online), August 2021.
- Estimation of the error Performance of Waiting time on Fuzzy Queueing

- system, Journal of Algebraic Statistics, Volume 13, No. 3, 2022, p. 5214-5219,
- ISSN: 1309-3452
- Design and Evaluation of the Traffic Signal Light Control to Reduce the Vehicle Waiting Time, YMER, ISSN : 0044:0477, Volume 21, Issue 10 (Oct)- 2022.
- On Weak Forms of $(1,2)^*$ - γ -Open Sets and Some New Separation Axioms, Indian Journal of Natural Sciences, ISSN : 0976 – 0997, Volume 15 / Issue 84 / Jun / 2024.

VIII. Articles Published/ Presented In Conference Proceedings and ISBN / ISSN Journals

- National Conference on Recent Trends in Applied Mathematics: A novel approach to priority assigns the job for Fuzzy Assignment Problem at Mannar Thirumalai Naicker College, Madurai on 14th August 2015, ISBN No: 978-93-85399-68-8.
- National Conference on Present Scenario in Graph Theory : Method for Solving Fuzzy Assignment Problems using Row and Column Penalties. At Mannar Thirumalai Naicker College, Madurai on 16th December 2016, ISBN: 978-93-85977-68-8.
- International Conference on Recent Trends in Applied Mathematics: A Novel Approach to Analyze the minimum Fuzzy Cost in RSA Method at Sri S. Ramasamy Naidu Memorial College, Sattur on 24.01.2017 & 25.01.2017. ISBN : 978-93-5268-266-9.
- International E-Conference on Emerging Technologies and Applications for a smart and Sustainable World: Mathematical Model for a Traffic Management System to obtain an effective Green signal Flow time Through a cross roads Junction at National Engineering College, Kovilpatti from 16.12.2021 to 18.12.2021.

IX. Details of Projects

S.No	Title of the Project	Name of the Applicant	Status	Amount	Funding Agency	Year
1	Mathematical Modeling on Time and Cost Minimizing Assignment Problem	S.Andal	Completed	20,000/-	Institutional Sponsored Faculty Minor Research Project	2019-2020

X. Faculty Development Programme / Conference/ Seminar Attended:

- National Conference on Applicable Mathematics and Mathematical Methods organized by the Department of Mathematics ,Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi on 28th December 2013.
- International Conference on Mathematical Computation and Modelling at The Madura College, on 6th January 2014.
- One Day State Level Seminar on Emerging Trends in General Topology held at Nadar Saraswathi College of Arts and Science , Theni on 24th January 2014.
- State Level Seminar on Recent Trends in Mathematical Modeling at Mannar Thirumalai Naicker College, Madurai on 14th August 2014.
- National Conference on Recent Trends in Applied Mathematics at Mannar Thirumalai Naicker College, Madurai on 14th August 2015.
- National Conference on Present Scenario in Graph Theory at Mannar Thirumalai Naicker College, Madurai at 16th December 2016.
- International Conference on Advances in Mathematics and Computer Science- 2017 at V.V.Vaniaperumal College for Women, Virudhunagar at 14.12.2017 to

16.12.2017 .

- International conference on Computational Science & its Applications at Sri S.Ramasamy Naidu Memorial College, Sattur at 16th March 2018.
- National Seminar on Applied Mathematics & IPR at Mannar Thirumalai Naicker College, Madurai on 16th December 2019.
- Faculty Development Programme on Documentation on Graph Using Latex on 13th May 2020 at Nizwa College of Engineering , Nizwa .
- Online Faculty Enrichment Programme conducted by IQAC, Mannar Thirumalai Naicker College, Madurai from 13.05. 2020 to 19.05.2020.
- Online E-Workshop cum E-Quiz on Positive Thought and Ideal Life on 28.05.2020 at Mannar Thirumalai Naicker College, Madurai.
- Three Day Faculty Development Programme on Descriptive Statistics Through R-Programming at KPR Institute of Engineering and Technology, Arasur, Coimbatore from 26.05.2020 to 28.05.2020.
- Online Faculty Development Programme on 10.06.2020 at Mepco Schlenk Engineering College, Sivakasi.
- Online Faculty Development Programme from 27.07.2020 to 31.07.2020 at KPR Institute of Engineering and Technology. Arasur, Coimbatore.
- One Day Workshop on SAGE for Mathematics and Engineering at Bannari Amman Institute of Technology, Sathyamangalam on 7.08.2020.
- Two weeks Online Faculty Development Programme on” Pedagogy and Research Methods” Organized by AMET University from 24.05.2021 to 06.06.2021.
- One week Online Faculty Development Programme on” Yoga for Well Being“ Organized by AMET University from 11.06.2021 To 17.06.2021.
- Participated in an Online International Conference on Data Science in e-commerce at Mannar Thirumalai Naicker College, Madurai on 23.07.2021.
- Two days Seminar on Development of Governing Equations of Fluid Flow,

Organized at KPERT, Coimbatore, on 2.08.2021& 3.08.2021.

- Impact lecture on Innovation and Entrepreneurship organized by Institution's Innovation council(IIC),Maharashtra Institute of Technology, Aurangabad on 8.11. 2021.
- National Virtual Workshop on Machine Learning: An Ice Breaker between Materials Research and Data Science organized by SSN College, on 12.04.2022 & 13.04.2022.
- National Level Faculty Development Programme on Latex organizes by S.S T College of Arts and Commerce, Thane from 18 07.2022 to 27.07.2022.
- National webinar on Intellectual Property Rights organized by TNSCST, Chennai on 04.08.2022.
- National Webinar on IP Awareness/Training Programme organized by National Intellectual Property Mission, India on 07.10.2022.
- Five Days online Lecture Series on Analysis and Topology organized by PSG College of Technology, Coimbatore from 10.10.2022 to 14.10.2022.
- National Mathematics Day organized by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 22.12.2022.
- One Day National Level FDP on Green Audit and Energy Audit in HEI's Organized by IOT Academy, Coimbatore on 29.12.2023.
- Participated in a Five Day Faculty Development Programme on Exploring Real World Applications in Mathematics organized by the department of Mathematics, School of Basic Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS) from 22.04.2024 to 26.04.2024.

**XI. Convener and Organizing Secretary For The Seminars/
Workshops And Intercollegiate Meet**

S.No	Title	Position	Date
1	One Day Workshop on CSIR NET & TNSET Preparations	Organizing Secretary	29.07.2019
2	Versatile Math REY 2020 Intercollegiate Fest	Organizing Secretary	06.03.2020
3	E-Quiz on Number Theory	Organizing Secretary	1.07.2020
4	National Conference on Current Trends in Applied Mathematics	Organizing Secretary	07.10.2022
5	National Conference on Recent Advancements in Pure and Applied Mathematics	Organizing Secretary	15.03.2024

XII. Subject Expert /Member in Board of Studies:

- Online Board of Study meeting at G.Venkatasamy Naidu College, Kovilpatti on 12.11.2020 (online) For UG & PG acted as subject expert.
- Board of Studies meeting at G.Venkatasamy Naidu College, Kovilpatti, on 29.07.2021 For UG & PG acted as Subject Expert.
- Board of Studies Meeting at G.Venkatasamy Naidu College, Kovilpatti, on 23.04.2022 acted as a Subject Expert.

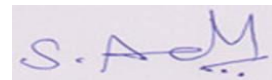
XIII. Acted as Resource Person:

- Delivered a lecture on Speed and Mind MATH Tricks in Three Days State Level

Technical Workshop on Math Teachers Training through Low Cost Teaching Aids organized by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 07.07.2022 jointly organized by Tamilnadu State Council for Science and Technology, Chennai from 06.07.2022 to 08.07.2022.

XIV. Academic Responsibilities (MTNC)

S.No	Name of position	From	To
1	Bus Pass Committee Member	2009	2011
2	Women Development Cell – Member	2010	2012
3	Science & Communication Club – Convener	2013	2014
4	Student Aid Fund-Convener	2019	2020
5	Women Development Cell-Member	2019	2023
6	Consumer Club-Convener	2021	2023
7	Research Ethics Committee – Member	2022	2023
8	Audit Committee–Member	2023	Till date
9	Green Campus Initiatives Committee - Convener	2023	Till date
10	Bus pass In charge - Convener	2023	Till date



(S.ANDAL)