

Name : Dr. M. Deepa
Designation : Assistant Professor
Department : Mathematics PG
Qualification : M. Sc., M.Phil., PGDCA, Ph. D
Experience : Teaching -13Years
Research : 11 Years
Area of Specialization(s) : Topology
Email(OfficialID) : mdeepa@psgrkcw.ac.in



Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D.	Mathematics	PSGR Krishnammal College for Women, Coimbatore. (Bharathiar University)	2018-2023
M.Phil.	Mathematics	PSGR Krishnammal College for Women, Coimbatore. (Bharathiar University)	2014-2015
M. Sc.	Mathematics	C.B.M. Arts and Science College, Coimbatore (Bharathiar University)	2007 - 2009
B.Sc.	Mathematics	C.B.M. Arts and Science College, Coimbatore (Bharathiar University)	2004 - 2007

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Diploma	PGDCA	Bharathiar University, Coimbatore.	2012-2013
Certification	IBM Data Science	Coursera	2023
Certification	IBM Data Topology	Coursera	2023

Research Guidance

Nil

Research Publications (Indexed)

International

1. Jackson S, Sasikala D, Deepa M, Innovative Expert System for Coronary Heart Disease Diagnosis Utilizing Soft Sets, IEEE Xplore,(2024) <https://doi.org/10.1109/CISCON62171.2024> (**Scopus**)(**Collaboration**).
2. Deepa M, Sasikala D, On Disconnected Spaces via Liberal Class of Sets, Indian Journal of Natural Sciences, 15(2024) (**Web of Science**).
3. Sasikala D, Deepa M, A new perspective of Neutrosophic hyperconnected Spaces, Neutrosophic Sets and Systems (**Scopus**).
4. Deepa M, Sasikala D, Broumi Said, A Contemporary Postulates on Resolvable Sets and Functions, Neutrosophic Sets and Systems (**Scopus**)(**International Collaboration**).
5. Sasikala D, Deepa M, An elementary approach on hyperconnected spaces, Turkish Journal of Computer and Mathematics Education, 12, (2021), 946-950.(**Scopus**)
6. Sasikala D, Deepa M, A note on connectedness on Topological space, Advances in Mathematics: Scientific journal, 9, (2020), 1-10.(**Scopus**)

Other Publications: International/National

7. Deepa M, Surekha S S, Characterization of j -open sets in minimal structure spaces, Malaya Journal of Matematik, 8(2020), 1171-1174.(**UGC care list**).
8. Sasikala D, Deepa M, A Structure of open sets in Quad Topological Spaces, The International Journal of Analytical and Experimental Analysis, 11(2019) (**UGC care list**).
9. Parvathy C R, Deepa M, Soft betacap generalized closed sets and soft beta cap generalized open sets in Soft Topological Spaces, International Journal of Innovative research in Science, Engineering and Technology, 4(2015).

Acted as a Resource Person

1. Resource Person in a **One day state level Seminar on Differentiation and Integration** at TDMNS College, T.Kallikulam, Tirunelveli.
2. Resource Person in a Special lecture on '**Introduction to Real Analysis**' at Sri Ramakrishna College of Arts and Science, Coimbatore.
3. Resource Person in a Special lecture on '**Recent Topics in Analytical Geometry**' at Sri Ramakrishna College of Arts and Science, Coimbatore.

Reviewer in journal

Neutrosophic sets and systems, **Ratio Mathematica**.

Paper Presentations in Conference

International

1. International Conference on Data Analytics and Computational Mathematics, Generalization of Ideal Closure Spaces, **Sri Ramakrishna College of Arts and Science**, Coimbatore, February 2020.
2. International conference on Applied Science Mathematics and Statistics, An elementary approach on hyperconnected spaces, **Kongunadu college of Engineering and Technology**, Trichy, April 2021.
3. International conference on Recent Advancements in Mathematics, A simple approach on hyperconnected spaces, **Sacred Heart College**, Tirupattur on April 2021
4. International Conference on Analysis and Applied Mathematics, On Disconnected Spaces via Liberal Class of Sets, **Ayya Nadar Janaki Ammal College**, Sivakasi, April 2022.
5. International Conference on Recent Trends in Mathematics and Computer Science, On Neutrosophic Resolvable Sets and functions in Neutrosophic Hyperconnected Spaces, **Auxilium College of Arts and Science for Women**, Pudhukottai, 19.10.2023 to 21.10.2023
6. International Conference on Recent Trends in Mathematics and Computer Science, The Analysis of the Consumer Preferences and Behaviour of Electric vehicles and Fuel Vehicles, **Auxilium College of Arts and Science for Women**, Pudhukottai, 19.10.2023 to 21.10.2023.

National

7. *National level Conference on Recent Trends in Pure and Applied Mathematics, Enhancing Diagnostic Systems with Python: A Neutrosophic Fuzzy logic Application for Heart Disease*, **Kristu Jayanti College, Bengaluru** on 30.1.2025 to 31.1.2025.

Presentations in Seminar

8. National Seminar on Current and Future Directions in Applied Mathematics, g^* -closed sets in Topological Spaces, **PSGR Krishnammal College for Women**, Coimbatore, February 2018.
9. One day National level seminar on Role of Mathematics in Science and Technology, Beta Baire Space and its Property, **RVS College of Arts and Science**, Coimbatore, March 2018.
10. National Seminar on Recent Trends in Topology, A new approach of j -open sets in soft topological spaces, **University of Calicut**, February 2019.

Participation in Conference

- International Conference on Recent Trends in Mathematics and Computer Science, **Auxilium College of Arts and Science for Women**, Pudhukottai, 19.10.2023 to 21.10.2023.

- International conference on Recent trends in Theoretical and Computational Mathematics (Virtual mode) - PSGR Krishnammal College for Women, 24.2.2022 to 25.02.2022.
- International conference on Analysis and Applied Mathematics(ICAAM-2022), Ayya Nadar Janaki Ammal College, Sivakasi, 26.4.2022 to 28.4.2022.

Participation in Seminars

- National Seminar on Current and Future Directions in Applied Mathematics, **PSGR Krishnammal College for Women**, Coimbatore, February 2018.
- One day National level seminar on Role of Mathematics in Science and Technology, , **RVS College of Arts and Science**, Coimbatore, March 2018.
- National Seminar on Recent Trends in Topology, **University of Calicut**, February 2019.

Participation in Workshop

- International virtual workshop on The Equation of Intelligence: Exploring the Fusion of Mathematics and AI, SRM Institute of Science and Technology, 23.08.2024 & 24.08.2024.
- Two days International Virtual workshop on Role of Mathematics in Machine learning, SRM Institute of Science and Technology. Chennai, 4.9.2023 to 5.9.2023.

Participation in Faculty Development Programme

- One week international FDP on Innovative Applications of Mathematics, Bapatla Engineering College, 18.11.2024 to 23.11.2024.
- Five day online FDP on Recent Trends in Mathematical and Technology, OP Jindal University, Chhattisgarh, 9.10.2023 to 13.10.2023.
- Stress Management, PSGR Krishnammal College for Women, 4.10.2023
- Empowering Academicians: AI- Powered Research for Excellence, PSGR Krishnammal College for Women, 3.10.2023
- A five day online FDP on Advances I Graph theory, VIT, 11.9.2023 to 15.9.2023.
- 15 days virtual International FDP Frontiers of Mathematics, SRM Institute of Science and Technology. Chennai, 5.7.2023 to 19.7.2023.
- Open source software tools for research, VIT, 11.3.2023 to 17.3.2023
- Three Days National FDP on Effective Teaching and Learning Methodologies for Differential Equations, PSGR Krishnammal College for Women, 25.04.2022 to 27.04.2022.
- FDP on Mathematics and its Applications, V.O.Chidambaram College, Thoothuludi. 23.3.2022 to 30.3.2022.

Participation in Webinar

- International webinar on Plagiarism-Importance, Consequence and how to avoid, Theivanai Ammal College for Women, 8.3.2023.
- Series of Talks "Researching beyond limits: Voices of the Other, SRM Institute of Science and Technology, 1.3.2023 to 8.3.2023
- Webinar series: Mathematics for Artificial Intelligence and Data science, Rajagiri School of engineering and Technology, 11.12.2021.
- Python workshop on Engineering Mathematics, Vellore Institute of Technology, 2.4.2022.

Conference/Seminar/Workshop/FDP Organized

1. Seven days International Level Virtual Faculty Development program on “ Exploring New Frontiers in Pure and Applied Mathematics: Unraveling Complexity” Jointly organized with CHIRD from 24th February to 3rd March 2025.

Grants

1. *Co-Principal Investigator of GRG Trust Project entitled An Expert System Design to Diagnose Coronary Heart Disease using Soft sets.*

File No. GRG/18/2021

Sanctioned Amount: **Rs. 60,000.**

2. Got **Rs. 3000** for the publication, *A new perspective of Neutrosophic hyperconnected Spaces in Neutrosophic Sets and Systems (Scopus)* on December 2022. (Publication incentive)
3. Got **Rs. 3000** for the publication, *A contemporary Postulates on Resolvable Sets and Functions in Neutrosophic Sets and Systems (Scopus)* on September 2023. (Publication incentive).

Contribution

- **Spoken Tutorial coordinator** in PSGR Krishnammal College for Women(2016 – 2021)
- **NAAC Criteria 3.3.2** over all incharge in PSGR Krishnammal College for Women.
- E-content Modules prepared.
- Admission coordinator, Joc coordinator, Intercollegiate competition incharge, IV In-charge and BOS member (Department level) in PSGR Krishnammal College for Women.