

Name : Dr.C.R.Parvathy
Designation : Associate Professor & Head
Department : Mathematics(UG-SF)
Qualification : M.Sc.M.Phil.,PGDCA.Ph.D
Experience : Teaching -21 Years
Research : 8 Years
Area of Specialization(s) : Topology
Email(OfficialID) : parvathy@psgrkcw.ac.in



Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Mathematics	Sree Saraswathi Thyagaraja College, Pollachi (Bharathiar University, Coimbatore)	2018
M.Phil.	Mathematics	PSG College of Arts & Science College. Coimbatore.	2004
M. Sc.	Mathematics	Government Art College, Coimbatore.	2002
B.Sc.	Mathematics	P.S.G.R. Krishnammal College for Women, Coimbatore.	2000

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
Certification	Coursera	IBM Topology, What is Data Science,.	2023
Certification	Coursera	Python for Data Science, AI & Development	2025
Certification	NPTEL	R Programming	2017

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M.Phil.	17	-
Ph.D	2	2

Research Publications (Indexed)

International (Scopus Indexed)

1. C.R.Parvathy & A.Sofia, Binary soft simply* alpha open sets and continuous function, Italian Journal of Pure and Applied Mathematics, N. 51–p.no.398–410 , 2024
2. C.R.Parvathy , Sofia A, A study on new classes of binary soft sets in Topological rough approximation space, Bulletin of the Karaganda University. Mathematics Series, No. 4(112), 2023, pp. 79-94
3. C.R.Parvathy, K.R.Vidhya, M - Homotopy Functions and their Equivalences in Algebraic Topology : A New Perspective, Journal of Propulsion Technology, Vol.45(3) 1575-1585,2024.
4. Parvathy.C.R., Deepa . S, Supra Regular b – Closed sets in Supra Topological Spaces, Journal of Propulsion Technology, Issue 03,(2024), 1446 – 1452.
5. Parvathy.C.R., Narmatha . S, A Study on Binary Generalized \wp – Closed Set in Binary Topological Space, Journal of Propulsion Technology, Vol. 45 No. 03 (2024)
6. C. R. Parvathy and K. R. Vidhya, Representation of Covering Spaces In Algebraic Topology, South East Asian J. of Mathematics and Mathematical Sciences Vol. 17, Proceedings (2021), pp. 141-148
7. . C.R.Parvathy & A.Sofia, Nonparametric Statistical Hypothesis Testing In Soft Set Theory, TWMS J. App. and Eng. Math. V.15, N.3, 2025, pp. 501-510

Other Publications: International/National

1.	Parvathy C.R., S. Bhuvaneshwari .S, The Reflexive Homotopy, JASC: Journal of Applied Science and Computations, Volume VI, Issue IV, April/2019 ,ISSN NO: 1076-5131
2.	Parvathy C.R., S. Bhuvaneshwari .S, Reflexive retracts and its properties, Journal of Advanced studies in Topology, 10:1 (2019), 1–6
3.	Parvathy.C.R and Dhana Priya .R, Closed sets in topological space, IOSR (JM), Vol.11, Oct.2016, pp 79-81.
4.	Maragathavalli.S, Parvathy.C.R, (i, j) - Irwg-closed sets in ideal bitopological spaces, International Journal of Mathematical Archive, 7(8), (2016), 1-3.
5.	Maragathavalli. S, Parvathy.C.R., Regular Weakly generalized locally closed sets in ideal topological space, IOSR Journal, Volume 12, Issue 6 Ver. V (Nov. - Dec.2016), PP 50-52
6.	Parvathy.C.R and Remya.U On Q^*g closed sets in Supra Topological Spaces, IOSR (JM), Vol.11, Oct.2015, pp 06-07.
7.	Parvathy.C.R. and Deepa.M Soft B - Generalized Closed Sets and Soft - Generalized Open Sets in Soft Topological Spaces ISSN (Online): International Journal of Innovative Research in Science, Engineering and Technology, Vol.4, Nov 2015.
8.	Parvathy. C. R and Divya, Ideal Hausdorff Space, IOSR Journal of Mathematics, Vol. 10, Issue 6, Dec (2014), 12-13.
9.	Maragathavalli.S and Parvathy.C.R, Irwg –Regular and Irwg –Normal Spaces, International Journal of Mathematics and Statistics Invention (IJMSI), Volume 2 Issue 6 (June 2014) PP-14-16.
10	Maragathavalli.S and Parvathy. C. R, Contra continuous functions, connectedness and compactness in ideal topological spaces, Jour. of global Research in Mathematics Achieves research, Vol.2, N0.6, June (2014).

11	Maragathavalli. S, Parvathy.C.R., A class of continuous mappings in ideal topological spaces, IOSR Journal of Mathematics (IOSR-JM), Volume 10, Issue 1 Ver. IV. (Feb. 2014), PP 24-26.
12	Maragathavalli. S and Parvathy.C.R, Regular weakly generalized closed sets in ideal topological spaces, International Journal of Pure and Applied Mathematical sciences, Vol.6, Number 2 (2013), pp. 205-209.
13	Parvathy.C.R. and R.Annapoorani, II Weakly Generalized Closed sets in Topological Spaces” in the Journal Advances in Theoretical and Applied Mathematics (ATAM) –8(1), 2013, pp. 53-62

Short Term Course

1. Participated in Short term Course under Quality improvement Programme on Probability & Random Processes organized by Coimbatore Institute of Technology, from 3rd- 9th April 2017.
2. National Level STTP on Quality Enhancement of Research in HEIs -23/09/2021 - 25/09/2021

Letter of Appreciation

This is to Certify that Dr.C.R.Parvathy, Associate Professor & Head, Department of Mathematics (UG SF), PSGR Krishnammal College for Women, Coimbatore has delivered a Guest lecture on "Cliometrics", organised by the PG & Research Department of History, PSGR Krishnammal College for Women, Coimbatore on 20 March 2023.

Acted as a Resource Person

1. Seminar on “Application of Differential equations” for B.Sc., mathematics students at Sri Krishna Aditya College of Arts & Science, Coimbatore
2. “Application of Statistics” for B.Com, allied students at Sri Sankara College of Science & Commerce, Coimbatore.
3. Guest Lecture on “Topology and its Applications” for M.Sc. Mathematics students at Sri Krishna Arts and Science College.

Reviewer in journal

Pandian Journal of Mathematical Sciences

Paper Presentations in Conference

International

1. Presented a paper in the “International Conference on Advances in Applicable Mathematics” organized by Bharathiar University on 21st and 22nd February 2020.
2. Presented a paper in the International Conference on “Innovative Challenges in Multidisciplinary Research and Practice of Mathematics” organized by Hindusthan College of Arts and Science on 8th Jan.2014.

National

1. Presented a paper in the “Two Days National Conference on e-Learning” organized by SNMV College of Arts and Science, Coimbatore on 8th and 9th Feb 2008.
2. Presented a paper in National conference on “Recent Developments in Applications of Mathematics” organized by Karpagam University on 13th March 2015.

Presentations in Seminar

1. Presented a paper in the National Seminar on “Modern Techniques and Applications in Mathematics” organized by Sree Saraswathi Thyagaraja College, Pollachi on March 4th 2013.
2. Presented a paper in the National Seminar on “Recent Advances in Mathematics & its Applications”

- organized by Tejaa Shakthi Institute of Technology for Women on March 22nd 2012.
3. Presented a paper in the UGC Sponsored Two Days National Seminar on “Recent Advances in Fuzzy Mathematics and its applications” organized by Nirmala College for Women, Coimbatore on July 5th and 6th 2011.

Participation in Conference

1. Participated in National Conference on “Future Trends in Topology and its Applications” organized by PSGR Krishnammal College for Women on 7th and 8th August 2019.
2. Participated in two days “National conference on Algebra & Analysis” organized by PSGR Krishnammal College for Women on 23rd and 24th August 2013.
3. Participated in NBHM sponsored National conference on “Mathematics and Computer Techniques in Industries” organized by PSGR Krishnammal College for Women on 22nd and 23rd March 2016.
4. Participated in International conference on “Applications of Mathematics in Engineering, Science and Technology” Sponsored by NBHM organized by at PSGR Krishnammal College for Women on 7th to 9th January 2015.
5. Indian Women and Mathematics, Annual Conference, 28/01/2022 - 30/01/2022
6. International Conference on Recent Trends in Theoretical and Computational Mathematics – 24/02/2022 - 25/02/2022

Participation in Seminars

1. Participated in National Seminar on “Current and Future Directions in Applied Mathematics” organized by PSGR Krishnammal College for Women on 21st and 22nd February 2018.
2. Participated in the International Level Seminar on “Computational Intelligence” organized by Bharathiar University during 30th December, 2008.
3. Introduction to Topology organized by Rajagiri School of Engineering and Technology , Kerala, 30.1.2019

Participation in Workshop

1. Participated in NAAC Sponsored Two day National Workshop on “Technology Enablement for Outcome Based Education” organized by IQAC at PSGR Krishnammal College for Women on 15&16th December 2016.
2. Participated in Science Academies’ Lecture Workshop on “Recent Trends in Functional Analysis ” organized by PSGR Krishnammal College for Women on 2nd- 4th January 2014.
3. Participated in Science Academies’ Lecture Workshop on “Differential Equations and their Applications” organized by PSGR Krishnammal College for Women, Coimbatore on 21st to 23rd December, 2011.
4. Workshop on Applied Mathematics - SRM Institute of Science and Technology, 06/02/2023 - 08/02/2023
5. Two Days International Virtual Workshop, “Role of Mathematics in Machine learning” organized by Department of Mathematics, SRMIST, Ramapuram, Chennai, India on 04th and 05th September 2023.
6. National Workshop on “Graph Theory in memory of Prof. E. Sampathkumar”, Sridharacharya Academy of Mathematical Sciences, 22nd Sep 2024.

Participation in Faculty Development Programme

1. Seven Days National online FDP on Research Methodology: Analysis Tools & Techniques - Theivanai Ammal College for Women 28/12/2022 - 03/01/2023
2. One Week FDP on Research Axioms and Practicum on Mathematical Applications - KG College of Arts & Science, 09/01/2023 - 13/01/2023
3. A Five-Day Online FDP on Advances in Graph Theory, organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai-600127 from 11th Sep to 15th Sep 2023.

4. A 5-Day Online Faculty Development Programme On “Adapting To Ai Driven Industry” Organized By P. G. Department Of Computer Science, Rajapalayam Rajus’ College in Association with Ecrio Inc, Usa, From 09-09-2024 To 13-09-2024
5. One Week International Faculty Development Program on “Innovative Applications of Mathematics” organized by the Department of Mathematics, held from 18-11-2024 to 23-11-2024 through virtual mode.
6. FDP on “Exploring New Horizons in Mathematical Research”, V.O.Chidambaram College, 19th to 24th Aug 2024.
7. FDP on “Programme on Latex”, Meerut Institute of Engineering and Technology, 9th, 23rd, 30th Nov & 7th, 14th Dec 2024.
8. National FDP on “Recent Development in Pure & Applied Mathematics”, IIST, 23rd to 28th Dec 2024.
9. One Week International Faculty Development Program on “Innovative Applications of Matheamtics” by Dept. of Mathematics in association with IIC ,17th -22th Nov.2025
10. A five day FDP on “ Artificial Intelligence:Global Trends, Technologies & Ethical Transformation” organized by Dept. of Computer Science in association with ECRIO Inc, USA, 15th to 19th Sep’2025
11. Five days FDP on “Mathematics for Sustainable Development in Research”organized by Dept. of Maths in Association with IQAC, IIC, ST.Joseph’s College , 24th to 29th Sep’2025.
12. Seven day FDP on “Exploring Emerging Trends and Future Directions of Pure & Applied Mathematics organized by Dept, of Maths in association with SriSarada College, V. O.Chidambaram College technically supported by DIGI Skill Development Centre and Training Institute, 12th to 18th Feb’2026.

Participation in Webinar

1. International Webinar on "Plagiarism - Importance, Consequence and how to avoid" - Training - Theivanai Ammal College, 08/03/2023 - 08/03/2023
2. An International Webinar on the Applications of Graph Theory - Training - Sri H.D.Devegowda Govt. First Grade College, 27/01/2023 - 27/01/2023
3. Series of Talks Reaching beyond Limits:Voices of the other - Seminar - SRM Institute of Science & Technology, 01/03/2023 - 08/03/2023
4. Series of Lectures “Infinite Insights: Unveiling Mathematical Marvels”, SRMIST, 18th to 21st Dec 2024.
5. Seminar on “Math on AI”, Dr. M.G.R. Educational and Research Institute, 10th December 2024.

Conference/Seminar/Workshop Organized

1. Served as a Organizing Secretary of QUIZ in the “**NDLI Reading Olympiad – Coimbatore- District**” in association with NDLI Project, IIT Kharagpur on 11th October 2019.
2. National Conference on **Future Trends in Topology and its Applications** 07-08- 2019 & 08-08- 2019.
3. Online National Level Transdisciplinary Faculty Development Program (FDP) on "**Mathematics in the Era of AI: Adapting to Emerging Trends and Tools.**" February 17, 2025, to February 22, 2025
4. ANRF Sponsored International conference on “Mathematical Sciences, Big Data & Interdisciplinary Research” from 26-28th February 2026

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Science Congress	Member	1 year

Indexing and Citations

	All	Since 2020	
<u>Citations</u>		19	5
<u>h-index</u>		2	2
<u>i10-index</u>		1	

Contribution

- BOS member in Rathinam College of Arts and Science
- DC member in Sri Krishna College of Arts and Science

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