

PPG COLLEGE OF ARTS and SCIENCE, COIMBATORE

Department of Mathematics

STAFF PROFILE

1	Name of the Staff	Dr. C.JENITA NANCY
2	Designation	Assistant Professor
3	Date of Birth	25-07-1986
4	Mobile Phone Number	7402156881
5	Email ID	jenitanancy.c.cas@ppg.edu.in
6	Educational Qualification	M.Sc., PGDOR., M.Phil., B.ED., Ph.D
7	Specialization	Topology
8	Experience (As on 31.12.2026)	8 years 10 months(Arts and Science Colleges) 1 year (Polytechnic College)
9	Research Projects Details	A Contribution to the study on Vague Bitopological Spaces and Applications via Vague sets
10	Publications in Journals	(i) International level: 12 (ii)National level: -
11	Workshop / Conference / Seminar / FDP – Attended	(i) International level: Workshop :01 Conference: 04 Seminar: - FDP: - 07 Webinar: -02 (ii) National level: Workshop:07 Conference: 02 Seminar: 25 FDP:17 Webinar:09
12	Workshop / Conference / Seminar / FDP – Organized	National level: Nil Coordinator: Nil International level: 02 Coordinator: 02
13	Online course	

		NPTEL :09
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14. NO OF WORKSHOPS/CONFERENCE/WEBINAR,FDP ATTENDED

S.NO	NAME OF THE WORKSHOPS/CONFERENCES /WEBINAR/FDP	NAME OF THE ORGANIZATION	YEAR
1.	Women's Health:Preventive Aspects	PSGR Krishnammal College for Women,Coimbatore in association with Digi Skill Development Centre and Training Institute,Mumbai	2026
2.	Emerging Trends in Global Logistics and Multimodal Transportation	Vijaya Vittala Institute of Management and Science,Bengaluru	2026
3.	AI Enhanced Educational Technologies	HKBK Degree College,Bengaluru	2026
4.	Graph Theory in Network Analysis	Dr.M.G.R. Educational and Research Institute,Chennai.	2026
5.	Impact of Mathematics on Modern Science	Dr.M.G.R. Educational and Research Institute,Chennai.	2025
6.	Empowering ICC Members through POSH act –An Advocate's prospective	Department of Social work, Bhararthiar University, Coimbatore	2025
7.	Industrial Intelligence through fuzzy logic-concepts to case studies	Vels Institute of Science,Technology and Advanced Studies	2025
8.	Mathematics:The unsung linchpin of Data Science and AI	EASA College of Engineering and Technology	2025
9.	The role of Graph Theory in Various fields	Dr.MGR Educational and Research Institute	2025

10.	Copyright essentials:Simplified for Everyone	A.C.T. Academy	2025
11.	Working strategy for the IIC in Entrepreneurship Development	A.C.T. Academy	2025
12.	Mathematical models for Machine Learning and Dynamical Systems	AMET University, Chennai	2025
13.	Emerging Trends in Graph Theory	School of Engineering and Technology	2025
14.	Introduction to Data Science	Raja College of Arts and Science	2025
15.	Academic leadership Program	Coimbatore Institute of Technology and Malaviya Mission Teacher Training Program	2025
16.	Mathematics in the Era of AI Adapting to Emerging Trends and Tools(Virtual Mode)	Krishnammal College for Women	2025
17.	Three-day Virtual Workshop on Advanced Research Tool on the topic “Hands –on Workshop on Latex”	Shri Shankarlal Shasun Jain College for Women	2025
18.	UGC - Sponsored short term programme on Recent trends in Mathematical Science and its Applications	Malaviya Mission Teacher Training Programme	2024
19.	Integrating NEP 2020 into Higher Education:Strategies for Faculty Development and Curriculum Innovation	Hindusthan College of Arts and Science(Autonomous), Coimbatore	2024
20.	Future Prospectus of Innovations in Artificial Intelligence	Department of Computer Science(Aided), Kongunadu Arts and Science College (Autonomous)	2024

21.	Spread the Spark 2024-Represented PPG College of Arts and Science-Teachers Day Celebration	Confederation of Indian Industry	2024
22.	Recent Frontiers in Pure and Applied Mathematics	Kongunadu Arts and Science College	2024
23.	Emotional Intelligence	PPG College of Arts and Science	2024
24.	Exploring New Horizons in Mathematical Research	V.O.Chidambaram College, Thoothukudi	2024
25.	Practicing Analytics with Data Science	School of Science and Computer Studies,CMR University,Bengaluru	2024
26.	FDP (4 Weeks Course) on Design Thinking - A Primer	NPTEL	2024
27.	Completed NEP 2020 Orientation and Sensitization Programme	Malaviya Mission Teacher Training programme of University Grants Commission (UGC) organized by UGC-MMTTC,Goa University	2024
28.	One Day Webinar on International Pi Day	Michael Job College of Arts and Science for Women, Coimbatore	2024
29.	Five Day International Virtual FDP on Mathematics and its Application	Department of Mathematics(PG), PSGR Krishnammal College for Women, Coimbatore	2024
30.	One day FDP on Prototype Development	Patrician Institution's Innovation Council and Department of CS – Shift II in collaboration with Shree Chandrabrabhu Jain College and Mar Gregorious College of Arts and Science	2024

31.	One day FDP on Design Thinking	Patrician Institution's Innovation Council and Department of CS with Data Science in collaboration with Mar Gregorious College of Arts and Science	2024
32.	Five Day International Virtual FDP on Empowerment in Education	IQAC of St.Joseph's College of Arts and Science	2024
33.	One week Online National level FDP on Teaching Strategies – A pedagogy	SRM Institute of Science and Technology,Ramapuram Campus, Faculty of Science and Humanities	2024
34.	One Day International Webinar on Project Automation Tool by Department of Computer Science and Engineering	SRM Madurai College for Engineering and Technology, Chennai	2024
35.	One day National Webinar on Financial Empowerment and Career opportunities in securities market	Government Engineering College Palanpur, Gujarat and Association of mutual funds in India	2024
36.	National Conventional day webinar on Job safety and its hazards analysis- JSHA and its Training Awareness – One day	Institution of Engineers(India)	2024
37.	Five days International Virtual Professional Development Programme on Developing your professional edge:strategies for career growth and financial success	Department of Commerce with Information Technology and IQAC of PPG College of Arts and Science,Coimbatore	2024
38.	Seven Day FDP on Deep learning Case Studies by TCS	Christ Campus, Yeshwanthpur, Bangalore	2023
39.	Completed training on Energy literacy	Energy Swaraj Foundation	2023
40.	One day National Level Seminar on Sustainable Development and Nutritional Security for Zero hunger	Excel Engineering College(Autonomous)	2023

41.	One day Seminar on First aid in the digital world	Excel Engineering College(Autonomous)	2023
42.	Five days FDP on Research Toolbox Reloaded	Hindusthan College of Arts and Science	2023
43.	Five day virtual faculty development program on Art of Effective Teaching	Suguna College of Arts and Science.Coimbatore	2023
44.	Six Day International Virtual FDP on Recent trends on Research methodologies,tools and techniques	Department of IT,KG College of Arts and Science,Coimbatore	2023
45.	Five Day FDP on Inaiya yugamum tamizhum 2	IQAC and Department of Tamil, PPG College of Arts and Science,Coimbatore	2023
46.	One Day National Level Seminar on Role of Higher Education Institutions for Self Reliant India	IQAC, PPG College of Arts and Science,Coimbatore	2023
47.	One Week International FDP on Mathematics in Real, Applied and Computational Domains	Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai	2023
48.	Five Day online International faculty development program on Challenges for students in the new normal	Government Arts College, Coimbatore	2023
49.	Five Day online faculty development program on Application of Mathematics in Applied Sciences and Engineering	GMR Institute of Technology – Rajam and National Institute of Technology – Warangal	2023

50.	One Day online workshop on Chat GPT and AI Tools for Educators	IQAC, PPG College of Arts and Science, Coimbatore	2023
51.	Seven Day virtual faculty development program on Outcome Based Education	IQAC and Department of Mechanical Engineering, PPG Institute of Technology, Coimbatore	2023
52.	Seven Day International Level Virtual Faculty Development on Emerging Technologies in Computer Science Research	School of Computer Science, PPG College of Arts and Science, Coimbatore	2022
53.	Five Day Virtual Faculty Development Program on ilakkiyam – kattal karpithal nutpangal 2	Department of Tamil, PPG College of Arts and Science, Coimbatore	2022
54.	Seven Day Virtual National Level Faculty Development Program on Research Methodology	Department of Commerce, PPG College of Arts and Science, Coimbatore	2022
55.	Three Day online International Webinar series on Human Values	PG and Research Department of Mathematics, Nirmala College for Women, Coimbatore	2021
56.	One Day Virtual Workshop on Academic Publications and Bibliometrics	Department of Library, Nirmala College for Women, Coimbatore	2021

57.	One Day National Seminar on Human Values	PG and Research Department of Mathematics, Nirmala College for Women, Coimbatore	2021
58.	Two Days International Conference on Advancements in Engineering and Sciences	Department of Mathematics, Graphic Era Hill University and Graphic Era Deemed to be University, Dehradun, India	2021
59.	Second International Conference on Mathematical Techniques and Applications	SRM Institute of Science and Technology, Kattankulathur	2021
60.	Three Day online webinar on Breaking Barriers through Brains	PG and Research Department of Mathematics, Nirmala College for Women, Coimbatore	2020
61.	One Day Webinar on Current Research in Fuzzy Mathematics	PG and Research Department of Mathematics, Sri Pushpam College (Autonomous), Poondi	2020
62.	Two Day online Webinar on Partial Differential Equations: Theory and Applications	PG and Research Department of Mathematics, Nirmala College for Women, Coimbatore	2020
63.	One Day Webinar on Women's Health through Ayurveda"	The Old Students' Association, Nirmala College for Women, Coimbatore	2020
64.	One Day Webinar on Importance of Mathematics in Artificial Intelligence and Machine Learning and Imaging	Department of Mathematics with Computer Applications, PSG College of Arts and Science, Coimbatore	2020

65.	Two Days National Conference on “Non Linear Analysis: Theory and Applications”	Department of Applied Mathematics, Bharathiar University, Coimbatore	2019
66.	One Day Workshop on “Introduction to Topology”	Rajagiri School of Engineering and Technology, Kerala	2019
67.	Second International Conference on Global Advancements of Mathematics (GAM-2019)	Acharya Institute of Graduate Studies, Bengaluru	25-26 June 2019
68.	Nirmala Annual Research Congress	IQAC, Nirmala College for Women, Coimbatore	27 Nov 2019
69.	Two Day International Conference on Emerging Ideas in Pure and Applied Mathematics	Vellalar College for Women (Autonomous), Erode	2019
70.	One Day State Level Seminar on “Emerging Topics on Differential Equations – Its Applications in Theoretical and Experimental Physics”	Sri Krishna College of Technology, Coimbatore	2018
71.	One Day State Level Workshop on LATEX	Sree Narayana Guru College, Coimbatore	2018
72.	One Day orientation Workshop in Open Access E-Resources for Research and INFLIBNET – Resources	Nirmala College for Women, Coimbatore	2018
73.	Two Days Science Academies’ Lecture Workshop on “New Vistas on Mathematical Modelling”	Nirmala College for Women, Coimbatore	2012

74.	One Day Workshop on “Career Guidance”	ICFAI National College, Coimbatore	2006
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15. NO OF PAPERS PRESENTED

S.NO	NAME OF THE TITLE	NAME OF THE ORGANIZATION	YEAR
1	A Survey on differential count of blood in human using Topsis method	International Conference – Acharya Institute of Graduate Studies, Bengaluru	2019
2	A Medical survey on the increase of sales using correlation coefficient of Vague sets	International Conference – Vellalar College for Women, Erode	2019
3	On $\tau_1\tau_2$ – Semi Connectedness and $\tau_1\tau_2$ – Semi Compactness in Vague Bitopological Spaces	National Conference – Nirmala College for Women, Red Fields	2019
4	Semi star generalized closed sets in Vague bitopological spaces	International Conference – SRM Institute of Science and Technology, Kattankulathur	2021
5	Semi star generalized locally closed sets in Vague bitopological spaces	International Conference – Graphic Era Hill University and Graphic Era Deemed to be University, Dehradun	2021

16. NO OF PUBLICATIONS

S.NO	NAME OF THE TITLE	NAME OF THE JOURNAL	YEAR
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1.	Peer reviewed journal: Fuzzy logic probabilistic Computation: A Mathematical Framework for Uncertainty in Artificial Intelligence	International Journal for Research in Applied Science and Engineering, Technology	2026
2.	Patent: Exploring machine learning with graph theory:A generalized social network analysis-based classification	The patent office journal No.13/2024 Dated:29/03/2024	2024
3.	Patent: Integrating Machine Learning and Graph theory for Improved Feedback and student performance prediction in Higher Educatio	The Patent Official Journal. 50/2024 Dated 13/12/2024	2024
4.	Patent:Exploring math attitude and behavioral patterns in higher education through machine learning	The Patent Official Journal. 13/2025 Dated 28/03/2025	2025
5.	Book Chapter:Combining Bayesian Networks and Deep Belief Networks for Uncertainty Quantification in Financial Forecasting	Hybrid Artificial Intelligence Models for Predictive Analysis Deep Learning and Adaptive Systems-RADemics	2025
6.	Scopus Indexed Journal: Topological Methods in Knot Theory: Analyzing the complexities of knotted structures	Communications on Applied Nonlinear Analysis	2025
7.	Patent:A novel approach to designing routing algorithms using graph theory	Official Journal of the Patent Office;Dated:16/02/24	2024
8.	Patent:Exploring machine learning with graph theory:A generalized social network analysis – based classification	Official Journal of the Patent Office;Dated:29/03/24	2024
9.	Book: Mastering Statistics using R Programming - A Comprehensive Guide	Surya Publications	2024
10.	Patent:Implementation and analysis of fractional derivative based weighted skip connections for satellite image road segmentation	Official Journal of the Patent Office;Dated:01/09/23	2023
11.	Patent:Implementation of Artificial Intelligence Techniques through Graph Theory by Generalized Social Network Analysis – based classifier	Official Journal of the Patent Office;Dated:07/07/23	2023

12.	Patent:Implementation and analysis of fractional derivative based weighted skip connections for satellite image road segmentation	Official Journal of the Patent Office;Dated:01/09/23	2023
13.	Semi star generalized closed sets in Vague bitopological spaces	AIPCP https://doi.org/10.1063/5.0108543	2022
14.	Semi star generalized locally closed sets in Vague bitopological spaces	AIPCP https://doi.org/10.1063/5.0103947	2022
15.	Vague – $\tau_1\tau_2$ – semi – α – open sets and Vague – $\tau_1\tau_2$ – semi – α – compactness in Vague bitopological spaces	Compliance Engineering Journal	2020
16.	Separation axioms in Vague bitopological spaces	Journal of Xi'an University of Architecture and Technology	2020
17.	Comparison approach to interval valued Vague set in diagnosis of plant disease using distance measures	International Journal of Research and Analytical Reviews	2019
18.	A Survey on Differential Count of Blood in Human using Topsis Method	International Journal of Advance and Innovative Research	2019
19.	Vague semi – open and semi – continuous functions in Vague Bitopological functions	Infokara Research	2019
20.	A Vague set application on the Regional-wise Seasonal rainfall in India	The International Journal of Analytical and Experimental Modal Analysis	2019
15.	On $\tau_1\tau_2$ – Semi Connectedness and $\tau_1\tau_2$ – Semi Compactness in Vague Bitopological Spaces	Nirmala Annual Congress ISBN No.978-93-5391-196-6	2019
21.	Contra continuous functions in Vague Bitopological spaces	Journal of Information and Computational Science	2019

22.	A New Approach to Solve Fuzzy Assignment Problem Using Dodecagonal Fuzzy Numbers	International Journal of Scientific Research in Science, Engineering and Technology	2017
23.	Solving a Transportation Problem using Nanogonal Fuzzy Number with Robust Ranking and Russell's Method	International Journal of Engineering Technology and Computer Research	2017
24.	Nanogonal Intuitionistic Fuzzy Number using Russell's Method	International Conference on Collaborative Research in Mathematical Sciences	2017