

# NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

## COIMBATORE

### STAFF PROFILE

**NAME** : Dr. Sr. STANIS ARUL MARY A.  
**DESIGNATION** : Assistant Professor  
**DEPARTMENT** : PG & Research Department of Mathematics  
**QUALIFICATION** : M.Sc., M.Phil., Ph.D., PGDOR  
**EXPERIENCE** : 15 years  
**AREAS OF SPECIALIZATION** : Topology, Fuzzy set theory and Graph theory  
**E-MAIL** : stanisarulmary@gmail.com  
**ACADEMIC QUALIFICATIONS** :

YEAR OF COMPLETION	NAME OF THE INSTITUTION	CLASS
2008	St. Joseph's College, Tiruppur	First class with distinction
2010	Nirmala College for Women, Coimbatore	First class with distinction
2011	Nirmala College for Women, Coimbatore	First class
2017	Nirmala College for Women, Coimbatore	
2009	Nirmala College for Women, Coimbatore	First class with distinction

#### ADDITIONAL QUALIFICATIONS:

DIPLOMA/ VOCATIONAL/ CERTIFICATION	AREA OF SPECIALIZATION	NAME OF THE INSTITUTION/ UNIVERSITY/ AGENCY	YEAR
PGDOR	Mathematics	Bharathiar University	2009

**RESEARCH GUIDANCE:**

PROGRAMME	NO. OF SCHOLARS	
	COMPLETED	PURSUING
Ph.D	2	4

**RESEARCH PUBLICATIONS:****INTERNATIONAL:**

- [1]  $g^*\alpha$ -closed sets in bitopological spaces, International Journal of Mathematical Archive (IJMA), Vol. 3, Issue 5, May 2012, ISSN 2229–5046, pp. 2029–2034.
- [2] Generalized pre regular closed sets in Bim spaces, International Journal of Innovative Research & Studies (IJIRS), Vol. 13, Issue 6, June 2014, ISSN 2319-9725, pp. 344–356.
- [3] Note on contra nano gb-closed maps, Journal of Global Research in Mathematical Archives (JGRMA), Vol. 2, Issue 10, Oct 2014, ISSN 2320-5822, pp. 55–66.
- [4] Note on contra nano gb-closed maps, International Journal of Innovative Research & Studies (IJIRS), Vol. 13, Issue 11, Nov 2014, ISSN 2319-9725, pp. 98–116.
- [5] On Characterizations of nano rgb-closed sets in nano Topological Spaces, International Journal of Modern Engineering Research (IJMER), Vol. 5, Issue 1, Jan 2015, ISSN 2249-6645, pp. 68–76.
- [6] On nano gb-closed sets in nano topological spaces, International Journal of Mathematical Archive (IJMA), Vol. 6, Issue 2, Feb 2015, ISSN 2229-5046, pp. 54–58.
- [7] Remarks on nano gb-irresolute maps, Elixir International Journal, Vol. 80, Mar 2015, ISSN 2229-712X, pp. 30949–30953.
- [8] Properties of nano gb-closed maps, IOSR Journal of Mathematics (IOSR-JM), Vol. 11, Issue 2, Apr 2015, ISSN 2278-5728, pp. 21–24.
- [9] Characterizations of mildly nano gb-normal spaces, International Journal of Applied Research (IJAR), Vol. 1, Issue 9, Jul 2015, ISSN 2394-5869, pp. 587–591.
- [10] Note on quasi nano b-normal spaces, Bulletin of Mathematics and Research, Vol. 3, Issue 3, Sept 2015, ISSN 2348-0580, pp. 124–136.
- [11] Cotangent similarity measure of rough fuzzy sets and its application on wireless network, International Journal of Applied Research (IJAR), Vol. 1, Issue 11, Sept 2015,

pp. 537–540.

- [12] Correlation Measure for Rough Neutrosophic Refined Sets and its Application in Medical Diagnosis, *Elixir International Journal*, Vol. 89, Dec 2015, ISSN 2229-712X, pp. 37031–37038.
- [13] On quasi nano rgb-closed maps, *Bulletin of Mathematics and Statistics Research*, Vol. 3, Issue 4, Dec 2015, ISSN 2348-0580, pp. 1–9.
- [14] Properties of nano b-regular spaces, *International Journal of Mathematics Trends and Technology (IJMTT)*, Vol. 28, Issue 1, Dec 2015, ISSN 2231-5373.
- [15] On nano gb-continuous and slightly nano gb-continuous maps, *Indian Journal of Applied Research*, Vol. 8, Issue 5, May 2018, ISSN 2249-555X, pp. 417–421.
- [16] Rough fuzzy ideals in near-rings, *Elixir International Journal*, Vol. 118, May 2018, ISSN 2229-712X, pp. 50715–50719.
- [17] Properties of somewhat nano b-continuous and somewhat nano b-open functions, *International Journal of Mathematical Archive (IJMA)*, Vol. 9, Issue 6, June 2018, ISSN 2229-5046, pp. 101–107.
- [18] Skewness and kurtosis on edge coloring of certain graphs, *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Vol. 7, Issue 4, Apr 2019.
- [19] Geo Chromatic Number for certain Cartesian product of graphs, *International Journal of Mathematics Trends and Technology (IJMTT)*, Vol. 66, Issue 1, Jan 2020, pp. 40–43.
- [20] On equitable coloring parameters of certain graphs, *Journal of Information and Computational Science (UGC Care Group II)*, Vol. 10, Issue 1, 2020, pp. 891–898.
- [21] On packing coloring of ladder and triangular ladder graph families, *Journal of Information and Computational Science (UGC Care Group II)*, Vol. 10, Issue 1, 2020, pp. 1252–1257.
- [22] On super mean labeling for line and middle graph of path and cycle, *Journal of Information and Computational Science (UGC Care Group II)*, Vol. 10, Issue 1, 2020, pp. 781–794.
- [23] b-Coloring for the family of paw graph, *Journal of Information and Computational Science*, Vol. 11, Issue 2, 2021, pp. 258–266.

- [24] Cordial labeling and anti-magic labeling for the family of fish graph, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 2, 2021, pp. 357–364.
- [25] Game on Labyrinth Graph: POPWIN (GLGP), *International Research Journal of Modernization in Engineering Technology and Science*, Vol. 3, Issue 2, Feb 2021, pp. 1286–1296.
- [26] Sum divisor cordial labeling of some graphs, *International Journal of Analytical and Experimental Modal Analysis*, Vol. XIII, Issue II, Feb 2021, pp. 1730–1742.
- [27] Face magic labeling of N number of vertices of graphs, *International Research Journal of Modernization in Engineering Technology and Science*, Vol. 3, Issue 2, Feb 2021, pp. 1068–1075.
- [28] Fuzzy graph coloring using cuts, *IJSART*, Vol. 7, Issue 2, Feb 2021, pp. 1–5.
- [29] Fuzzy graph coloring, *International Journal of Analytical and Experimental Modal Analysis*, Vol. XIII, Issue III, Mar 2021, pp. 293–298.
- [30] Quadripartitioned neutrosophic soft set, *International Research Journal on Advanced Science Hub*, Vol. 3, Issue 02S, Feb 2021, pp. 106–112.
- [31] Pentapartitioned neutrosophic Pythagorean soft set, *International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)*, Vol. 3, Issue 2, Feb 2021, pp. 906–913.
- [32] Pentapartitioned neutrosophic soft sets, *Infokara Research Journal*, Vol. 10, Issue 2, Feb 2021, pp. 106–116.
- [33] Pentapartitioned neuromorphic Pythagorean set, *International Research Journal on Advanced Science Hub*, Vol. 3, Issue 02S, Feb 2021, pp. 62–68.
- [34] Heptapartitioned neutrosophic set, *International Journal of Creative Research Thoughts (IJCRT)*, Vol. 9, Issue 2, Feb 2021, pp. 222–230.
- [35] Pentapartitioned neutrosophic Pythagorean topological spaces, *Journal of XI'AN University of Architecture and Technology*, Vol. XIII, Issue 4, 2021, pp. 1–7.
- [36] K-algebra on quadripartitioned neutrosophic Pythagorean set, *GIS Science*, Vol. 8, Issue 3, 2021, pp. 1553–1573.
- [37] Quadripartitioned neutrosophic Pythagorean set, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 4, 2021, pp. 276–281.

- [38] Neutrosophic Pythagorean soft set with T and F as dependent neutrosophic components, *Neutrosophic Sets and Systems*, Vol. 42, 2021, pp. 65–78.
- [39] Quadripartitioned neutrosophic Pythagorean soft set, *International Journal of Neutrosophic Science*, Vol. 14, Issue 1, 2021, pp. 9–23.
- [40] Bipolar pentapartitioned neutrosophic set and its topological spaces, *International Journal of Creative Research Thoughts*, Vol. 9, Issue 5, 2021, pp. g304–g309.
- [41] Heptapartitioned neutrosophic sets, *International Journal of Creative Research Thoughts (IJCRT)*, Vol. 9, Issue 2, Feb 2021, pp. 222–230.
- [42] Quadripartitioned neutrosophic soft topological spaces, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 6, 2021, pp. 67–73.
- [43] Pentapartitioned neutrosophic Pythagorean strongly irresolvable spaces, *Neutrosophic Sets and Systems*, Vol. 49, 2022, pp. 389–397.
- [44] Quadripartitioned neutrosophic Pythagorean Lie subalgebra, *Journal of Fuzzy Extensions and its Applications*, Vol. 2, Issue 3, Sept 2021, pp. 283–296.
- [45] Pentapartitioned neutrosophic generalized semi closed sets, *Journal of Computational Mathematica*, Vol. 5(1), June 2021, pp. 123–131.
- [46] Bipolar pentapartitioned neutrosophic set and its generalized semi-closed sets, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 8, 2021, pp. 1130–1137.
- [47] Improved correlation coefficients of quadripartitioned Neutrosophic Pythagorean closed sets using MADM, *Journal of Computational Mathematica*, Vol. 5, Issue 1, 2021, pp. 142–153.
- [48] Pentapartitioned neutrosophic Pythagorean Baire spaces, *Advances and Applications in Mathematical Science*, Vol. 21, Issue 3, Jan 2022, pp. 1401–1404.
- [49] Pentapartitioned neutrosophic Pythagorean resolvable and irresolvable spaces, *Neutrosophic Sets and Systems*, Vol. 45, 2021, pp. 219–228.
- [50] Homomorphism on pentapartitioned neutrosophic Pythagorean K-algebra, *International Journal of Scientific Research in Science, Engineering and Technology*, Vol. 9, Issue 6, 2021, pp. 26–32.
- [51] Pentapartitioned neutrosophic Pythagorean generalized pre-continuity, *International*

- Journal of Research Publication and Reviews, Vol. 3, Issue 5, May 2022, pp. 2888–2892.
- [52] Neutrosophic Pythagorean sets with dependent Neutrosophic components and its improved correlation coefficients, *Neutrosophic Sets and Systems*, Vol. 46, 2021, pp. 77–86.
- [53] Effectiveness on impact of Covid vaccines on correlation coefficients of pentapartitioned neutrosophic Pythagorean statistics, *Cognitive Intelligence with Neutrosophic Statistics*, 2021, pp. 335–356.
- [54] Improved correlation coefficients of Quadripartitioned neutrosophic Pythagorean sets using MADM, *Journal of Computational Mathematica*, Vol. 5(1), June 2021, pp. 142–153.
- [55] Pythagorean fuzzy ideals in subtraction algebra, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 9, 2021, pp. 477–482.
- [56] Tangent similarity measures of Pythagorean fuzzy sets, *International Journal of Creative Research Thoughts*, Vol. 2, Issue 9, 2021, pp. 456–462.
- [57] Cotangent similarity measures of Pythagorean fuzzy set, *International Journal of Creative Research Thoughts*, Vol. 10, Issue 3, 2022, pp. 283–288.
- [58] Generalized pre-closed sets in Pythagorean fuzzy topological spaces, *International Journal of Creative Research Thoughts*, Vol. 10, Issue 3, 2022, pp. 142–147.
- [59] Pythagorean fuzzy pre-open sets, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 9, 2021, pp. 470–476.
- [60] Irredundant complete cototal dominating set, *International Journal of Research Publication and Reviews*, Vol. 2, Issue 12, 2021, pp. 75–78.
- [61] Quasi clique dominating set, *International Journal of Scientific Research in Engineering and Management (IJSREM)*, Vol. 5, Issue 12, 2022.
- [62] Pentapartitioned neutrosophic almost resolvable and irresolvable spaces, *Journal of Computational Mathematica*, Vol. 6, Issue 2, 2022, pp. 65–74.
- [63] Tangent and cotangent similarity measures of pentapartitioned neutrosophic Pythagorean sets in virtual education during Covid pandemic, *Neutrosophic Sets and Systems*, Vol. 55, 2023.
- [64] Minimum neighbourhood domination of split graph of graphs, *Baghdad Science Journal*,

- Vol. 20, Issue 1, 2023, pp. 273–276.
- [65] Minimum neighborhood domination on trees, *Gradiva Review Journal*, Vol. 8, Issue 10, 2022, pp. 235–240.
- [66] Bounds on minimum neighborhood domination in graphs, *Indian Journal of Natural Sciences*, 2023.
- [67] Correlation coefficient of generalized interval neutrosophic set, *International Journal of Research and Analytical Review (IJRAR)*, Vol. 10, Issue 1, 2023, pp. 324–328.
- [68] Certain notions of generalized neutrosophic K-algebras, *International Journal of Research and Analytical Review (IJRAR)*, Vol. 10, Issue 1, 2023, pp. 324–328.
- [69] Decision making based on the improved correlation coefficient of generalized interval neutrosophic set, *International Journal of Research and Analytical Review (IJRAR)*, Vol. 10, Issue 1, 2023, pp. 613–616.
- [70] Minimum neighborhood domination of graphs, *International Journal of Creative Research Thoughts*, Vol. 10, Issue 10, 2022, pp. 342–345.
- [71] Generalized neutrosophic Pythagorean pre-open sets in generalized neutrosophic Pythagorean topological spaces, *International Journal of Creative Research Thoughts*, Vol. 12, Issue 2, 2024, pp. 224–230.
- [72] Decision making in medical diagnosis using improved correlation coefficients of tetra neutrosophic sets, *Machine Intelligence Research*, Vol. 18, Issue 1, 2024.
- [73] Quadripartitioned neutrosophic soft pre-open and pre-closed sets, *Neutrosophic Sets and Systems*, Vol. 83, 2025, pp. 589–595.
- [74] Utilizing decision theory in agriculture with quadripartitioned neutrosophic soft sets in the midst of uncertainty, *Information Systems Engineering and Management (ISEM)*, Vol. 10, 2024, pp. 442–448.
- [75] Applying the quadripartitioned neutrosophic soft matrix theory to guide decision making in the selection process and thermal management of batteries for electric vehicles, *Journal of Transportation Systems Engineering and Information Technology*, Vol. 12, Issue 6, 2024, pp. 54–60.
- [76] Neutrosophic Pythagorean Cubic Soft Sets, *Information Systems Engineering and Management (ISEM)*, Vol. 88, Article 36, 2025.

## **PRESENTATIONS IN CONFERENCE:**

### **INTERNATIONAL:**

- [1] Pre-closed sets in bim spaces, 79th Annual Conference of Indian Mathematical Society, Rajagiri School of Engineering & Technology, Kochi, Kerala (28.12.2013 – 31.12.2013).
- [2] On semi pre-open sets in nano topological spaces, International Conference on Mathematical Sciences, School of Mathematics, Madurai Kamaraj University (21.08.2014 – 23.08.2014).
- [3] On nano gb-closed sets, Nirmala Annual Research Congress, Nirmala College for Women, Coimbatore (27.09.2014).
- [4] On nano gb-continuous maps, National Conference, Women's Christian College, Chennai (12.01.2015 – 13.01.2015).
- [5] On stronger forms of nano gb-continuous maps, National Conference, Erode Arts and Science College, Erode (07.02.2015).
- [6] Remarks on nano rgb-continuous and irresolute maps, National Conference, Sri Sarada College for Women, Salem (11.02.2015 – 12.02.2015).
- [7] On Intuitionistic fuzzy ideals of a ring using  $\alpha$ -level relations, International Workshop on Intelligent Data Analysis Techniques (IWIDAT 2015), Pondicherry University, Puducherry (17.03.2015).
- [8] Quadripartitioned Neutrosophic Soft Topological Spaces, 2nd International Conference on Science and Technology (ICOST – Online), Global Conference Hub (30.01.2021 – 31.01.2021).
- [9] Quadripartitioned Neutrosophic Soft Set, International Conference on Applied Mathematics & Civil Structures (ICAMCS 2021), Department of Mathematics and Civil Engineering, Kalavakkam, Chennai (12.02.2021 – 13.02.2021).
- [10] Neutrosophic Pythagorean Soft Set with T and F as dependent Neutrosophic components, International Conference on Applied Mathematics & Civil Structures, Kalavakkam, Chennai (12.02.2021 – 13.02.2021).
- [11] Quadripartitioned Neutrosophic Pythagorean Soft Set with dependent neutrosophic components, International Conference on Advanced Research in Mathematical Sciences (ICARMS 2021), Sri Manakula Vinayagar Engineering College (24.02. & 25.02.2021)

- [12] Quadripartitioned Neutrosophic Pythagorean Soft Set, International Conference on Advanced Research in Mathematical Sciences, Sri Manakula Vinayagar Engineering College (24.02.2021 – 25.02.2021).
- [13] Pythagorean Fuzzy Preopen Sets, First International Conference on Environment, Economy, Management, Sciences and Technology (ICEEMST – Online), SIES (Nerul) College of Arts and Science and Commerce, Navi Mumbai (24.08.2025 – 25.08.2025).
- [14] Pythagorean Fuzzy Ideals in Subtraction Algebra, First International Conference on Advancements in Engineering, Management, Science and Technology, CSI College of Engineering, Ketti, India (10.09.2021 – 11.09.2021).
- [15] Tangent Similarity Measures of Pythagorean Fuzzy Sets, First International Conference on Environment, Economy, Management, Sciences and Technology (ICEEMST – Online), CSI College of Engineering, Ketti, India. (10.09.2021 – 11.09.2021).
- [16] Pentapartitioned Neutrosophic Pythagorean Baire Spaces, International Conference on Mathematical Modelling and its Soft Computing Applications (ICMMSCA 2021), Sanskrithi School of Engineering, Puttaparthi (29.11.2021 – 30.11.2021).
- [17] Bound on Quasi Clique Domination Number, Mathematical Modelling and its Soft Computing Applications (ICMMSCA 2021), Sanskrithi School of Engineering, Puttaparthi (29.11.2021 – 30.11.2021).
- [18] Impact of Online Education During Covid Pandemic Through Improved Correlation Coefficients in Pythagorean Fuzzy Environment, Two-Day International Conference on New Trends in Mathematical Modelling with Applications (ICNTMMA-2022), Sri Vidya Mandir Arts and Science College (Autonomous), Uthangarai, Tamil Nadu (07.04.2022 – 08.04.2022).
- [19] Minimum Neighborhood Total Domination of Some Graphs, Third International Conference on Materials, Computing & Communication Technologies (ICMCCT 2022), Annai Vailankanni College of Engineering, AVK Nagar, Pottalkulam (20.06.2022).

#### **PARTICIPATION IN CONFERENCES:**

- [1] 28.12.2013 – 31.12.2013, 79th Annual Conference of Indian Mathematical Society, Rajagiri School of Engineering & Technology, Kochi, Kerala, National.

- [2] 06.02.2015, National Conference on Echo of Mathematics, Department of Mathematics, Nirmala College for Women, National.
- [3] 07.01.2023 – 08.01.2023, International Conference on Reviving Traditional Food Products of Tamil Nadu, Entrepreneurship Development Cell, Nirmala College for Women, International.
- [4] 04.10.2025 – 05.10.2025, National Conference on Connecting Users to Library Resources through Innovative Technologies (SALIS 2024), Department of Library, Nirmala College for Women, National.

#### **PARTICIPATION IN SEMINARS:**

- [1] 04.05.2020, How to Use Turnitin Software for Your Research (“Turnitin Online on Campus”), Webinar, Guru Nanak Institute of Management Studies, National.
- [2] 10.05.2020, வளமான நாடு அதில் உங்கள் பங்களிப்பு, Webinar, Arasu Women’s College, State.
- [3] 13.05.2020 – 15.05.2020, Future of Entrepreneurship and Employment Opportunities, Webinar, Nehru Institute of Technology, State.
- [4] 14.05.2020 – 16.05.2020, Stay Healthy and Keep Fit During Lockdown, Webinar, Tamil Nadu Physical Education and Sports University, National.
- [5] 15.06.2020 – 21.06.2020, Webinar on the Seven Gifts of the Holy Spirit, Webinar, Nirmala College for Women.
- [6] 06.08.2021, Essentials of Mathematics for Machine Learning, Webinar, Government Arts College, Udthagamandalam, National.
- [7] 07.08.2021, Relevance of Mathematics in Control Systems, Webinar, KPR Institute of Engineering and Technology, Coimbatore, National.
- [8] 14.08.2021, Importance of Elephant in Environment, Webinar, Nature Club & NSS, Rathinam College of Arts and Science, National.
- [9] 30.08.2021 – 01.09.2021, Fundamental Mathematics, Webinar, School of Basic Sciences, The Assam Kaziranga University, International.
- [10] 31.08.2021, An Overview – Topology and Nano Topology, Webinar, Department of Science and Humanities, Hindusthan College of Engineering and Technology, Valley

Campus, Coimbatore, National.

[11] 28.01.2022, International Seminar on Recent Trends in Pure and Applied Mathematics, Seminar, Nirmala College for Women, International.

[12] 29.08.2025 – 30.08.2025, AIACHE South Regional Meet, Seminar, Madras Christian College, Chennai, National.

#### **PARTICIPATION IN WORKSHOPS:**

[1] 02.02.2013, National Programme on Technology Enhanced Learning, IIT Madras.

[2] 13.10.2018, Outcome Based Education, Internal Quality Assurance Cell, Nirmala College for Women.

[3] 02.02.2019, Intellectual Property Rights, Patents and Copyrights, Internal Quality Assurance Cell, Nirmala College for Women.

[4] 07.03.2020, Revised Guidelines for the Accreditation Process of NAAC, Internal Quality Assurance Cell, Nirmala College for Women.

[5] 07.05.2020, Academic Integrity: Dealing with Plagiarism, Rehobath Academic Services, Bangalore.

[6] 19.03.2020, Innovative Eco Systems, Incubation Centers and Start-ups for Higher Education Institutions, Internal Quality Assurance Cell, Nirmala College for Women.

[7] 02.06.2021 – 04.06.2021, Research Methodology, Annai Velankanni College of Engineering, Kanyakumari.

[8] 23.09.2021, Online Submission of Data towards NAAC – An Overview, IQAC, Nirmala College for Women, Coimbatore.

[9] 08.08.2023 – 17.08.2023, Big Data Technologies, CDAC, Noida.

#### **PARTICIPATION IN ORIENTATION PROGRAMME/ INDUCTION PROGRAMME/ SHORT TERM COURSES:**

##### **PARTICIPATION IN INDUCTION PROGRAMME**

[1] Faculty Induction Programme, 28 Days, 05.07.2023 – 03.08.2023, UGC Human Resource Development Centre & Bharathiar University.

### **PARTICIPATION IN REFRESHER COURSE**

- [2] Refresher Course, 14 Days, 24.09.2024 – 07.10.2024, Malaviya Mission Teacher Training Centre & Kannur University.

### **PARTICIPATION IN NPTEL COURSES**

- [1] Graph Theory, 8 Weeks – 2 Credits, 18.01.2021 – 21.03.2021.  
[2] Advanced Graph Theory, 8 Weeks – 2 Credits, 15.02.2021 – 22.08.2021.  
[3] Machine Learning, 8 Weeks – 2 Credits, 15.02.2021 – 22.08.2021.

### **PARTICIPATION IN COURSERA SHORT TERM COURSES**

- [1] Personality Types at Work, 16.09.2020 – 28.09.2020, University of Florida.  
[2] Managing Asthma, Allergies, Diabetes, and Seizures in School, 16.09.2020 – 05.11.2020, University of Colorado.  
[3] Science of Exercise, 14.09.2020 – 05.11.2020, University of Colorado.  
[4] Our Earth's Future, 19.09.2020 – 06.11.2020, American Museum of Natural History.  
[5] Feminism and Social Justice, 14.09.2020 – 06.11.2020, University of California, Santa Cruz.  
[6] Mindshift: Break Through Obstacles to Learning and Discover Your Hidden Potential, 16.09.2020 – 08.11.2020, McMaster University.  
[7] Cancer Prevention Web-Based Activity, 19.09.2020 – 15.11.2020, University of Virginia.  
[8] Extinctions: Past, Present, & Future, 10.11.2020 – 26.11.2020, Emory University.

### **PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES:**

- [1] Innovative Teaching Strategies, 30.10.2019, Curriculum Development Cell, Nirmala College for Women.  
[2] MOODLE Learning Management System, 29.04.2020 – 01.05.2020, Kaypeeyes College of Arts and Science, Tamil Nadu.  
[3] How to Take Your Teaching Online, 30.04.2020 – 02.05.2020, North Storm Academy.  
[4] How to Write Effective Case Study, 02.05.2020, Atmiya University, India.  
[5] Course and Curriculum Design in Higher Education, 08.05.2020, Sri GVG Visalakshi

College for Women, Tamil Nadu.

- [6] Recent Trends in Colour Image Processing, 11.05.2020, Patrician College, Tamil Nadu.
- [7] Online Course Planning and Design, 13.05.2020 – 14.05.2020, North Storm Academy.
- [8] R Programming Language, 13.05.2020 – 20.05.2020, Auxilium College, Tamil Nadu.
- [9] Fuzzy Sets and Systems, 16.05.2020, Patrician College, Tamil Nadu.
- [10] My Life, My Pride, My Career, 18.05.2020, Patrician College, Tamil Nadu.
- [11] Aspects of Mathematics, 22.03.2021 – 23.03.2021, Dwaraka Doss Goverdhan Doss Vaishnav College.
- [12] FDP on e-Content Skill Development, 14.06.2021 – 19.06.2021, Nirmala College for Women.
- [13] Applications of Mathematics in Science and Technology, 21.06.2021 – 26.06.2021, Narasu's Sarathy Institute of Technology, Salem.
- [14] National Level Faculty Development Programme on Graph Theory, 29.06.2021 – 03.07.2021, Christ College of Science and Management.
- [15] National Level Virtual FDP on Graph Theory, 21.12.2021 – 23.12.2021, Vellalar College for Women (Autonomous), Erode.
- [16] FDP on Research Axioms and Practicum on Mathematical Applications, 09.01.2023 – 13.01.2023, KG College of Arts and Science, Coimbatore.
- [17] Digital Age Pedagogy, 16.06.2023, IQAC, Nirmala College.
- [18] One Week Virtual FDP on SageMath, 26.06.2023 – 30.06.2023, KG College of Arts and Science, Coimbatore.
- [19] FDP on Mathematics in Real, Applied and Computational Domains, 03.07.2023 – 08.07.2023, Sathyabama Institute of Research and Technology.
- [20] Learning Outcome Based Curriculum Framework in the Context of NEP, 04.12.2024, IQAC, Nirmala College for Women.

**CONFERENCE/ SEMINAR/ WORKSHOP ORGANIZED:**

- [1] E-Quiz on Mathematical Aptitude, 20.05.2020 – 23.05.2020, E-Quiz.
- [2] One Day National Seminar on Human Values, 20.05.2021, College of Philosophy and Religion, Mysore.

- [3] Yoga and Energy Healing Workshop, 28.06.2021 (9.00 a.m. – 1.00 p.m.)  
Rev. Sr. Leema Lawrence, Principal, Nirmala Matric Hr. Sec. School.

**INVITED SPEAKER/ SESSION CHAIR- CONFERENCE/ SEMINAR/ WORKSHOP:**

- [1] Art of Graph Matching and Its Application, International Conference on Innovations in Engineering Sciences (ICIES-2021) (Online), 28.03.2021, RSP Science Hub & Global Conference Hub (International).
- [2] Information Technology, Computing & Applications, International Conference on Information Technology, Computing & Applications (ICITCA-2021), 06.05.2021, RSP Conference Hub & Sreenidhi Institute of Science and Technology (International).
- [3] Management Science & Technology, International Conference on Management, Science & Technology (ICMST-2021), 30.05.2021, Global Conference Hub & R.B.V.R.R. Women's College (International).
- [4] Gender Issue, State Level Conference, 09.02.2022, Pioneer College of Arts and Science (State Level).
- [5] Mathematical Modelling and Intelligent Systems, International Conference, 18.03.2024 – 20.03.2024, Sri Vidya Mandir Arts and Science College, Uthangarai, Tamil Nadu (International).

**BOOK PUBLICATIONS:**

- [1] தீர்வுக்கோர்வைகள்  
[2] கவிதைத் தூறல்கள்

**BOOK CHAPTER PUBLICATIONS:**

- [1] Chapter 15: Certain Notions on Pentapartitioned Neutrosophic Pythagorean Sets, Neutrosophic System and its Applications — “A New Wave”, Lulu International Publisher, United States, 2021, pp. 221–234.
- [2] Chapter 12: Improved Correlation Coefficients in Neutrosophic Statistics for COVID Patients Using Pentapartitioned Neutrosophic Sets, Cognitive Intelligence with Neutrosophic Statistics, Mara E. Monner, Academic Press (An imprint of Elsevier), pp. 237–257.

- [3] Chapter 18: Effectiveness on Impact of COVID Vaccines on Correlation Coefficients of Pentapartitioned Neutrosophic Pythagorean Statistics, Cognitive Intelligence with Neutrosophic Statistics, Mara E. Monner, Academic Press (An imprint of Elsevier), pp. 335–356.
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**MEMBERSHIP IN PROFESSIONAL BODIES:**

- [1] Controller of Examinations
- [2] Member of GBM
- [3] Member of the Core Group Committee
- [4] ABC Nodal officer
- [5] Coordinator of Catechism and value education committee