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### Academic Exposure

Qualification	M.Sc., M.Phil., Ph.D
Area of Specialization	Fuzzy Soft Matrices
Teaching Experience	18
Papers Published	09
Office Address	PG & Research Department of Mathematics, Government College for Women(A), Kumbakonam.

### List of Publications

1. N.Sarala and S.Rajkumari, “**Invention of Best Technology In Agriculture Using Intuitionistic Fuzzy Soft Matrices**”, *International Journal of Scientific and Technology Research*, Volume3, Issue5, ISSN:2277-8616, **SJIF 2014:3.023**, pp:286-290, 2014.
2. N.Sarala and S.Rajkumari, “**Application of Intuitionistic Fuzzy Soft Matrices in Decision Making Problem by Using Medical Diagnosis**”, *IOSR Journal of Mathematics*, Volume 10, Issue 3ver.VI, e-ISSN:2278-5728, p-ISSN:2319-765X, **IF:1.759**, pp:37-4, 2014.

3. N.Sarala and S.Rajkumari, “**Role Model Service Rendered to Orphans by Using Fuzzy Soft Matrices**”, *International Journal of Mathematics Trends and Technology*, Volume 11, Number1, E.ISSN:223-5373,P-ISSN:2349-5758, **IF-1.469**, pp:14-19, 2014.
4. N.Sarala and S.Rajkumari, “**Significant characters of Fuzzy Soft Matrices**”, *International Journal of Engineering Research and Technology*, Volume 3, Issue 9,ISSN: 2278-0181, **IF: 2.70**, pp:959-966, 2014.
5. N.Sarala and S.Rajkumari, “**Drug Addiction effect in Medical Diagnosis by Using Fuzzy Soft Matrices**”, *International Journal of Current Engineering and Technology*, Volume 5, Number1, *E-ISSN: 2277-4106, P-ISSN: 2347-5161*, **GIF:5.126**, pp:247-251,2015.
6. Sarala.N and Rajkumari.S, “**Essential Characteristic Features of Intuitionistic Fuzzy Soft Matrices**”, *International Journal of Informative and Futuristic Research*, Vol.3, Issue 1, ISSN:2347-1697, **SJIF 2015: 5.081**, pp:19-41,2015.
7. Sarala.N and Rajkumari.S, “**Advantages and Characteristic Features of Human Life in Villages by Using Fuzzy Soft Matrices**”, *International Journal of Fuzzy Mathematical Archive*, Vol.9, No.2, ISSN: 2320-3242(print), ISSN: 2320-3250(online), **IF 2015:1.137**, pp:251-260,2015.
8. Sarala.N and Rajkumari.S, “**Decision Making Carried in Food Adulteration by Using Interval Valued Fuzzy Soft Matrices**”, Proceedings of the National Conference on Graph Theory, Fuzzy Graph Theory and Their

Applications, *Jamal academic research journal: An interdisciplinary special issue(Feb-2016)*, ISSN: 0973-0303, pp:213-220,2016.

9. Sarala.N and Rajkumari.S, **“Different Types of Inequalities Exist Among Human Beings By Using Fuzzy Soft Matrices”**, *International Journal of Innovative Research in Science, Engineering and Technology*, Volume 5, Issue 5, ISSN(Online):2319-8753, ISSN(Print): 2347-6710, **IF 2015: 6.209**, pp:8304-8316,2016.

### **Conference/Seminar organized/Attended**

- Participated Faculty Development Programme on “Research Motivation”, Organized by IQAC, Government College for Women(A), Kumbakonam on 03<sup>rd</sup> April 2023.
- Organized One day Inter-Disciplinary Workshop on ” Train-The Teachers Would be (For the Students of Mathematics & Chemistry)”, Government College for Women (Autonomous), Kumbakonam on 30<sup>th</sup> January 2023.
- Participated Faculty Development Programme on “NAAC – SSR Preparation in a Nutshell”, organized by IQAC, Government College for Women(A), Kumbakonam on 04<sup>th</sup> November 2022.
- Participated Faculty Development Programme on “ Practicum as a CIA Component” Organized by IQAC, Government College for Women(A), Kumbakonam on 27<sup>th</sup> May 2022.
- Participated Faculty Development Programme on “ E-Content Devoleopment “(Tools, Tips and Techniques) Organized by IQAC and PG & Research Department of Computer Science, Government College for Women(A), Kumbakonam on 2<sup>nd</sup> July 2021.

- Organized National Webinar on “Homomorphisms on Groups”, Government College for Women(A), Kumbakonam on 31<sup>st</sup> July, 2020.
- Participated National Workshop on “Preparation of Students Project Proposal for State and Central Government Funding Agencies”, Government College for Women(A), Kumbakonam on 16<sup>th</sup> August 2019.
- Organized UGC – Autonomy Grand Sponsored Two-Day National seminar on “Recent Trends in Pure and Applied Mathematics”, Government College for Women(A), Kumbakonam on 17<sup>th</sup> and 18<sup>th</sup> July 2019.
- Participated One day Faculty Development Programme on “ Prospects of Outcome Based Curriculum” organized by IQAC at Government College for Women(A), Kumbakonam on 7<sup>th</sup> July 2019.
- Organized Mini Winter School on “PYTHON-2017”, Government College for Women(A), Kumbakonam on February 14<sup>th</sup> to 16<sup>th</sup>, 2017.
- Participated “one day zonal level seminar for YRC Programme Officers of Bharathidasan University Area” on 10<sup>th</sup> February 2017.
- Participated Faculty Development Programme one day seminar on “Creating Teaching Techniques” organized by Internal quality Assurance cell in collaboration with Swami Vivekandandha Illam, Sri Ramakrishna Math, Chennai on 22<sup>nd</sup> August 2015.

- Participated “one day Zonal level seminar for YRC Programme Officers of Affiliated Colleges”, Organized by Youth Red Cross Zone of Bharathidasan University, Tiruchirappalli on 31<sup>st</sup> March 2015.
- Organized one day workshop on “LIE GROUPS”, Government College for Women(A), Kumbakonam on 14<sup>th</sup> March 2015.
- Organized Mini Winter School on “ULTRA COLD ATOMS (UCAT – 2014)”, Government College for Women(A), Kumbakonam on 22<sup>nd</sup> to 24<sup>th</sup> December 2014.
- Participated Workshop on “Frontier Areas in Symbolic Computing and Cloud Computing”, Government College for Women(A), Kumbakonam on January 31<sup>st</sup> and 1<sup>st</sup> February 2014.
- Participated Workshop on ”Mathematical Modelling in Biology using SPSS”, Government College for Women(A), Kumbakonam on 18<sup>th</sup> and 19<sup>th</sup> October 2013.
- Participated Workshop on “Handson Training in Interactive Devices(Smart Class Room), Government College for Women(A), Kumbakonam on 13<sup>th</sup> September 2013.
- Participated Seminar on National year of Mathematics-2012, “Ramanujan’s 125<sup>th</sup> Birthday Celebrations”, Government Arts College(A), Kumbakonam on 22<sup>nd</sup> December 2012.

- Participated two day Faculty Improvement Programme on “Effective Teaching Techniques” Organized by IQAC at D. G. Govt. Arts College (W), Mayiladuthurai on 10<sup>th</sup> & 11<sup>th</sup> February 2011.
- Participated UGC Sponsored National Seminar on “Mathematical Modelling in Health Care”, Government Arts College (A), Kumbakonam on 28<sup>th</sup> and 29<sup>th</sup> March 2008.
- Participated National seminar on “Mathematical Methods For Research”, A.V.C. College (A), Mayiladuthurai on 8<sup>th</sup> and 9<sup>th</sup> February 2008.

### **Webinar Attended**

- Participated “One day Swachhta Action Plan Online Workshop”, organized by Mahatma Gandhi National Council of Rural Education in Collaboration with National Service Scheme on June 2020.
- Participated Webinar on “Introduction to the Theory of Automata & its Applications”, Queen Mary’s College (Autonomous), Chennai -04 on 11<sup>th</sup> June 2020.
- Participated National Webinar on “ Yoga at Home: Yoga with Family in Covid 19-Pandemic Situation” Organized by Department of Physical Education, Government College for Women(A), Kumbakonam on 21<sup>st</sup> June 2020.

- Participated One day National Level Webinar on “ New Directions in Pure and Applied Mathematics” Organized by Department of Mathematics, Government Arts College (Autonomous), Kumbakonam on 29<sup>th</sup> June 2020.

### **Orientation / Refresher Courses Attended**

- From 13<sup>th</sup> October to 08<sup>th</sup> November 2008(28 days), Participated in the Orientation Course conducted by Tamil Nadu State council for Higher Education and University Grants Commission-academic staff college university of Madras, Chennai.
- From 10<sup>th</sup> June to 30<sup>th</sup> June 2011(21 days), Participated in the Refresher course in Mathematics conducted by UGC Academic Staff College Bharathidasan University, Trichy.
- From 13<sup>th</sup> July to 02<sup>nd</sup> August 2018(21 days), Participated in the Refresher course in Mathematics conducted by UGC- Human Resource Development Centre Bharathidasan University, Trichy.
- From 06<sup>th</sup> December to 19<sup>th</sup> December 2019(14 days), Participated in the Refresher course in Educational Technology (Multidisciplinary) conducted by UGC- Human Resource Development Centre Bharathidasan University, Trichy.
- From 22<sup>nd</sup> November to 28<sup>th</sup> November 2019(07 days), Participated in the NSS Orientation Course conducted by Empanelled Training Institution, Madras School of Social Work.

- From 11<sup>th</sup> May to 25<sup>th</sup> May 2021(15 days), Participated in the Inter-Disciplinary Refresher course on Managing Online Classes & Co-creating MOOCS 5.0 conducted by Teaching Learning Centre, Ramanujan College University of Delhi.

### **Award Received**

- Best NSS Programme Officer Award for the year 2020-2021 was given by the Bharathidasan University, Tiruchirappalli.
- Best NSS Unit Category Award for the year 2021-2022 was given to the college by Bharathidasan University, Tiruchirappalli on behalf of the best NSS service rendered by the NSS Units.

### **Other (relevant to academic activity)**

- Acted as Rotaract Programme officer in the year 2011.
- YRC coordinator from June 2014 – April 2017.
- Computer Literacy Programme Coordinator 2014 onwards.
- Placement Coordinator from June 2015- April 2019.
- Carrier guidance cell 2018-2021.
- NSS Programme officer 18.07.2019 – 30.09.2022.
- Old students Association committee member from 2023 onwards.