

CURRICULUM VITAE

Dr. J. MAHALAKSHMI

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Hosur,
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Academic Qualifications

Name of the Course	Name of the Institution	Board/University	Year of passing	Aggregate
Ph.D [Mathematics] (Full Time)	Sri Sarada College for Women(Autonomous), Salem.	Periyar University	Oct 2021	-
M.Sc [Mathematics]	Sri Sarada College for Women(Autonomous), Salem.	Periyar University	May 2014	77%
B.Sc [Mathematics]	Sri Sarada College for Women(Autonomous), Salem.	Periyar University	April 2012	83%
H.S.C	PDR Mem. Matric. H.S.S, Pappireddipatti.	State Board of Tamilnadu	March 2009	90%
S.S.L.C	Valarmathi Matriculation School, Pappireddipatti.	State Board of Matriculation, Tamil Nadu	March 2007	90%

Projects

- Ph.D An inquisition on fuzzy normal spaces via fuzzy operation, Smarandache fuzzy semiring structure spaces and fuzzy fibrewise structures
- M.Sc. Strongly g^* -Closed sets in Topological Spaces

Teaching Experience

- Assistant Professor in Adhiyamaan College of Engineering, Hosur for four months in the year 2022.
- Assistant Professor in Mahendra College of Engineering, Salem for ten months during 2023-2024.

- Working as Assistant Professor in Sri Sairam College of Engineering, Anekal, Bengaluru from March 2025.

Certificate Courses:

- Completed six **NPTEL** courses
 - 1) Introduction to Abstract and Linear Algebra (in the year 2023)
 - 2) Basic Linear Algebra (2024)
 - 3) Introduction to Abstract Group Theory (2024)
 - 4) Complex Analysis(2025)
 - 5) Introduction to Rings and Fields(2026)
 - 6) Basic Calculus 1(2026)
- Completed 2 Modules in **NITTT**
 - 1)Module 1
 - 2)Module 3

Fellowships/Awards/Prizes

- Qualified in Tamil Nadu State Eligibility Test (**TNSET**) for Assistant Professor held on 4 th March 2018.
- Awarded **NPTEL Discipline star** for successfully completing more than 50 weeks of certified courses in Mathematics discipline.

Areas of Interest

- Fuzzy Topology
- Linear Algebra

Technical Exposure:

- 1) MS-Office
- 2) Latex
- 3) Matlab

No. of Publications : 14

- 1) J. Mahalakshmi, M. Sudha, On Fuzzy $*G_\delta\beta$ Continuity in Fuzzy $*\text{Matroids}$, *Annals of Fuzzy Mathematics and Informatics*, 5(2016), 737-753.
- 2) M. Sudha, J. Mahalakshmi, On Fuzzy g^*m -Continuity in Fuzzy $*\text{Matroids}$, *The Journal of Fuzzy Mathematics*, 25(2017), 303-312.
- 3) J. Mahalakshmi, M. Sudha, Some Strong and Weak Forms Of Generalized Fuzzy $*G_\delta\beta$ Continuity in Generalized Fuzzy $*\text{Matroids}$, *International Journal of Computational and Applied Mathematics*, 12(2017), 432-445.
- 4) M. Sudha, B. Amudhambigai, J. Mahalakshmi, On Fuzzy Ultra-Normal and Fuzzy $T_i(i = 1/4, 3/4)$ Spaces via Fuzzy Operation, *International Journal of Scientific Research and*

Review, 7(2018), 575-583.

- 5) M. Sudha, J. Mahalakshmi, On Some Generalisations of Fuzzy- β - ψ -Normal Spaces, *International Journal of Scientific Research and Reviews*, 7(2018), 1445-1457.
- 6) M. Sudha, J. Mahalakshmi, A View on Generalized Fuzzy $\ast F$ Structure Compactification and Generalized Fuzzy $\ast$ Convergence Structure in Generalized Fuzzy $\ast$ Matroids, *The Journal of Fuzzy Mathematics*, 26(2018), 847-862.
- 7) J. Mahalakshmi, M. Sudha, Smarandache Fuzzy Semiring Paraopen Semirings, *Infokara Research*, 8 (2019), 525-532.
- 8) J. Mahalakshmi, M. Sudha, On Slightly Smarandache Fuzzy Semiring Structure Homogeneous Spaces, *The International Journal of Analytical and Experimental Modal Analysis*, 8 (2019), 12095-1217.
- 9) J. Mahalakshmi, M. Sudha, Fuzzy Fibrewise Homotopy, *International Journal of Recent Technology and Engineering*, 8(2020), 5486-5493.
- 10) J. Mahalakshmi, M. Sudha, Smarandache Fuzzy Semiring Para-Nearly Compact Spaces, *The Journal of Fuzzy Mathematics*, 28(2020), 523-543.
- 11) J. Mahalakshmi, M. Sudha, Smarandache Fuzzy Semiring Minimal- c -Regular Spaces, *Malaya Journal of Matematik*, 9(2021), 741-744.
- 12) J. Mahalakshmi, M. Sudha, Applications of Smarandache Fuzzy Minimal Open Semirings, *Malaya Journal of Matematik*, 9(2021), 760-764.
- 13) J. Mahalakshmi, M. Sudha, Fuzzy Fibrewise Structures, *Journal of Physics : Conference Series*, 1850(2021), 1-10.
- 14) V. Madhuri, M. Rowthri, J. Mahalakshmi, Fuzzy Automata F^* -First Category Subsystems, *TWMS J. App. And Eng. Math*, 15(2025), 2786-2797.

Workshops/ Symposiums Attended

- 1) Participated in “Workshop on Analytic Number Theory” held at The Institute of Mathematical Sciences, Chennai, during 19th - 24th October 2015.
- 2) Participated in Outreach Programme “FACETS - 2016”, A Two-Day Mathematics Program held at The Institute of Mathematical Sciences, Chennai during July 04 & 05, 2016.

- 3) Participated in UGC One Day Interdepartmental Workshop on “Research Tools for Mathematical Computation” held at Sri Sarada College for Women (Autonomous), Salem on 30.08.2016.
- 4) Participated in the “Science Academies’ Lecture Workshop on Algebra and Analysis” held at Karpagam University, Coimbatore during January 04 & 05, 2017.
- 5) Attended “Intercollegiate Mathematics Workshop for motivating PG students towards research 2016” at Sri Sarada College for Women (Autonomous), Salem during 01.12.2016 to 03.12.2016.
- 6) Participated in the National Workshop on Function Analysis and Applications held at Bharathidasan University, Tiruchirappalli, during March 9 – 10, 2017.
- 7) Participated in “Science Academies’ Lecture Workshop on Real Analysis” held at Vellalar College for Women (Autonomous), Erode on 22 - 23 June 2017.
- 8) Participated in National Seminar on “Research Issues on Topology and Computing” held at Bharathiar University PG Extension Centre, Erode on 13 - 14 of July, 2017.
- 9) Participated in International Symposium on “Recent Trends in Computer Science Research” held at Sri Sarada College for Women (Autonomous), Salem on July 26, 2017.
- 10) Participated in International Workshop on “Mathematical Modelling” held at Sri Sarada College for Women (Autonomous), Salem on July 31, 2017.
- 11) Attended the Refresher course for College Teachers in Kerala State – IV during 09 – 12 November, 2017 at Kerala School of Mathematics.
- 12) Participated in the International Workshop on “Operation Research and its Applications” held at Sri Sarada College for Women (Autonomous), Salem – 16 on 19th January 2018.

Book Chapters Published : 3

1. Published a book chapter entitled “A study comparing crisp and fuzzy graph models for Decision-Making” in the book “Mathematics beyond Frontiers: Recent Developments and Interdisciplinary connections” published by Stanzaleaf publication on April 2025 with ISBN : 978-81-98481-83-2.
2. Published a book chapter entitled “A study on fuzzy normal spaces via fuzzy operation” in the book “Contemporary Explorations in Multidisciplinary Sciences” published by Unika Prakashan on September 2025 with ISBN : 978-93-48301-03-1.
3. Published a book chapter entitled “The Math that Binds: A Deconstruction of the Internet of Things” in the book “Emerging Frontiers in Computer Technology”, published by Hindusthan College of Arts and Science in collaboration with Jnana Kendra Centre for Research and Development on March 2026 with ISBN : 978-93-49650-85-5.

Patent : 1

1. A UK Pattern Design titled “Graphing Calculators with Advanced Visualization Features” has been granted with design number : 6466975 on 2nd September 2025.

Training Programs Attended :

- 1) Attended Instructional School for Teachers held at KSOM, Kozhikode during 5th October to 17th October 2015.
- 2) Attended Annual Foundation School - I (AFS - I) held at JECRC University, Jaipur, during 30th November - 26th December, 2015.
- 3) Attended Annual Foundation School - II (AFS - II) held at Baskaracharya Prathisthana, Pune, during 8th May, - 3rd June, 2017.

Paper Presentations in Conferences/ Seminars:

- 1) Participated and presented a paper entitled “On Fuzzy $*G_\delta\beta$ Continuity in Fuzzy $*\text{Matroids}$ ” in the National Seminar on Recent Development in Topology (NSRDT 2015) held on 11th and 12th February 2015 at Sri Sarada College for Women (Autonomous), Salem.
- 2) Participated and presented a paper entitled “A View on Fuzzy $*\text{prefilters}$ in Fuzzy $*\text{Matroids}$ ” in the State level Conference on Wide Views on Analysis and its Applications held on 21st October 2016 at Government Arts College for Women, Salem.
- 3) Participated and presented a paper entitled “On Fuzzy $*F_\sigma\beta$ Boundary $*\text{Matroids}$ ” in the International Conference on Mathematical Applications in Engineering and Technology held on 27th and 28th January 2017 at Sacred Heart College (Autonomous), Tirupattur.
- 4) Participated and presented a paper entitled “Some Strong and Weak Forms of Generalized Fuzzy $*G_\delta\beta$ Continuity in Generalized Fuzzy $*\text{Matroids}$ ” in the National Conference on Mathematical Modeling held on 30th and 31st March 2017 at Cardamom Planters’ Association College, Bodinayakanur.
- 5) Participated and presented a paper entitled “On Fuzzy Ultranormal and Fuzzy T_i ($i = 1/4, 3/4$) Spaces via Fuzzy Operation” in the Nation Seminar on New Trends in Mathematical Modeling held on 11th and 12th February 2015 at Sri Sarada College for Women (Autonomous), Salem.
- 6) Participated and presented a paper entitled “Fuzzy Fibrewise Structures” in the International Conference on Mathematical Modeling and Computational Methods in Science and Engineering held on 22.01.2020 to 24.01.2020 at Alagappa University, Karaikudi.
- 7) Participated and presented a paper entitled “Homogeneity in Smarandache Fuzzy Semiring Structure Spaces” in the International Conference on “Recent Trends in Multi-Disciplinary Research and Innovation” on 19th September 2025 at A.V.P. College of Arts and Science(Autonomous), Tirupur, Tamilnadu, India.

FDP’s Attended

- 1) Completed 5 day online FDP on “Inculcating Universal Human Values in Technical Education” organized by AICTE from 14th April to 18th April 2025.
- 2) Completed 5 day online FDP on “Emerging Trends in Graph Theory” organized by Department of Basic Science and Humanities in association with IQAC, SCMS School of Engineering and Technology from 21st April to 25th April 2025.
- 3) Participated in 2 day programme on “Be a great mentor, to be a good Teacher” organized by RV Centre for leadership and Executive Education in association with Dept of Science and Humanities

on 15th and 16th July 2025.

- 4) Completed NPTEL AICTE FDP on Introduction to Abstract Group Theory during July-September 2024.
- 5) Completed NPTEL AICTE FDP on Complex Analysis during July-October 2025.
- 6) Completed NPTEL AICTE FDP on Introduction to Rings and Fields during Jan-March 2026.

Personal Data

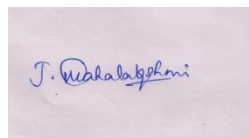
Name : J. Mahalakshmi
Father's Name : P. Jayaraman
Date of Birth : 01.11.1991
Gender : Female
Nationality : Indian
Religion : Hindu
Marital Status : Married
Languages Known : English, Tamil

Declaration

I hereby declare that the information mentioned above is correct up to my knowledge and bear the responsibility for the correctness of the mentioned particulars.

Place : Hosur

Yours truly,



Date : 01.07.2026.

(J. MAHALAKSHMI)