

# Ms. S. Shenbaga Devi

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## Education

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- **M.Phil.** in Mathematics, Loyola College, University of Madras, 2012
- **M.Sc.** in Mathematics, Loyola College, University of Madras, 2011
- **B.Sc.** in Mathematics, Fatima College, Madurai Kamaraj University, 2009

## Teaching Experience

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- **Assistant Professor of Mathematics** (2013–present), Department of Science and Humanities, Loyola - ICAM College of Engineering and Technology
- **Visiting Faculty of Mathematics** (2012 - 2013), Department of Science and Humanities, Loyola - ICAM College of Engineering and Technology

## Academic Responsibilities

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- Course Coordinator for Discrete Mathematics, Algebra and Number Theory, Numerical Methods - LICET
- Board of Studies - Internal Member - LICET

## Administrative Responsibilities

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- Programme Officer – Youth Red Cross Club (YRC), LICET
- Member – Pedagogy Committee

## Publications

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- **Journals:** 2 publications (Scopus)

## Areas of Interest

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**By Research:** Chemical Graph Theory

**By Teaching:** Discrete Mathematics, Probability

**By Experience:** Outcome-Based Education, Student Mentorship, Building Quantitative Aptitude and Logical reasoning among students

## Software Skills

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- Programming: MATLAB
- Pedagogical Tools: LMS MOODLE
- Tools: Google Workspace, FLASH, L<sup>A</sup>T<sub>E</sub>X

## Conferences Organised

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- Member – International conference on Next-Gen Mathematical Sciences , Loyola College, 10th and 11th December 2025

## Conferences Attended (National / International)

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- International conference on Next-Gen Mathematical Sciences , Loyola College, 10th and 11th December 2025
- E - International conference on Queen's of ERA - 2021, G S Tompe Arts, Commerce and Science College, 23rd March 2021
- National Conference on Mathematical Analysis and Computing, Sree Sevugan Anamalai College, Devakottai, 28th May 2021.

## Papers Published

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- S Shenbaga Devi, S Dhanalakshmi, "Quantitative Structure–Property Relationship-Based Analysis of Topological Indices for Antihypertensive Drugs", Mathematical Modelling of Engineering Problems, Vol 12, No 9, September 2025, 3094 - 3102.
- S Shenbaga Devi, S Dhanalakshmi, "Analysis of Degree-Based Topological Indices for Stroke Treatment Drugs: A Study on the Physicochemical Features", IAENG International journal of Applied Mathematics, Vol 54, Issue 6, June 2024, 1233 - 1239.

## Paper Presentations

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- Investigating entropy of Porous Graphene using degree based topological indices – International Conference Contemporary Applied Mathematics and Statistics: Trends, Innovations and Applications, July 25 - 26, 2025, St Joseph College of Engineering, Chennai
- Structural evaluation of Antihypertensives by applying Molecular Descriptors –International Conference on Advanced Materials Manufacturing and Structures, February 22 - 23, 2024, Rajalakshmi Institute of Technology, Chennai
- Topological indices of novel drugs used in Hypertension treatment and QSPR analysis – International conference on Mathematical modelling, January 27 - 28, 2023, Bharathiyar University, Coimbatore
- Topological Indices of Novel Drugs used in Hypertension treatment during Pregnancy – Progress in Mathematics towards Industrial Applications, October 28 - 29, 2022, SRMIST, Ramapuram, Chennai
- Computing Zagreb indices of Propranolol – 3rd International Conference on Mathematical Techniques and Application, March 23 - 25, 2022, SRMIST, Kattankulathur, Chennai

## Workshop Organised

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- Coordinator - "Igniteen 2025", LICET
- Coordinator - "FuNit 2021", Department of Mathematics, LICET, Online Programme to higher secondary students
- Co-Coordinator - "Teaching Mathematics for Engineering Students (Series - Transforms - PDE)", LICET (2017)

## Workshop / FDP: Attended

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Year	Title / Organizer
2025	“Recent trends in Graph Theory” – (Online) DMI College of Engineering (03.03.2025 - 07.03.2025)
2021	“Linear Algebra” – SSN College of Engineering (06.08.2021)
2021	“Mathematical Software Workshop ” – (Online) Universal Engineering College (05.06.2021 - 11.06.2021)

2021	“Recent research developments in Mathematics, Statistics and their applications” – (Online) GMR Institute of Technology, Andhra Pradesh (20.05.2021 - 26.05.2021)
2021	“Industrial Mathematics with Data Science in Industry 4.0” – (Online) SRMIST (28.04.2021 - 30.04.2021)
2021	“Inculcating human values in Technical Education” – AICTE (01.02.2021 - 05.02.2021)
2021	“How teachers can make a difference” – (Online) IIT Madras (19.01.2021 - 21.01.2021)
2020	“Applications of Mathematics in Engineering” – (Online) KPR Institute of Engineering and Technology (20.07.2020 - 25.07.2020)
2020	“Mathematical Analysis” – (Online) Loyola College (08.06.2020 - 13.06.2020)
2020	“Strategies and Techniques for CSIR - NET on Real Analysis” – (Online) Loyola College (01.06.2020 - 03.06.2020)
2020	“ Competency and Career Opportunities” – (Online) Shashun Jain College for Women (04.06.2020)
2020	“Basics of Documentation using Latex” – (Online) Stella Maris College (24.06.2020 - 25.06.2020, 29.06.2020 - 30.06.2020)
2019	“Informing Gen Z Engineers” – LICET (12.06.2019 - 13.06.2019)
2019	“Algebra and Number Theory” – Easwari College of Engineering (19.06.2019 - 21.06.2019)
2019	“Short term NBA training programme” – LICET (22.04.2019 - 26.04.2019)
2017	“Discrete Mathematics” – KCG College of Engineering (30.06.2017)
2017	“Teaching Mathematics for Engineering students - Series, Transforms and PDE” – LICET (02.06.2017)
2015	“Teaching Mathematics for Engineering students” – LICET (30.10.2015)
2014	“Signals and Systems” – LICET (02.01.2014 - 12.01.2014)
2013	“Engineering Mathematics II” – Anna University (03.01.2013 - 10.01.2013)

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## MOOCs Course Details

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- Coursera – “Mathematics for Machine Learning” (2020)
- Coursera – “Matrix Methods” (2020)
- Coursera – “Vector Calculus for Engineers” (2020)
- ICT Academy – “Digital Teaching Techniques” (2020)

## Any Other Details

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- Trainer - Loyola Summer Camp 2024
- Core Team Member and Trainer - Loyola Summer Camp 2022