



**Name : Dr.D.SASIKALA**

**Designation :** Assistant Professor

**Department :** MATHEMATICS (Aided)

**Qualification :** M.Sc.,M.Phil.,Ph.D., PGDCA

**Experience :** Teaching -18 Years

**Research :** 11 Years

**Area of Specialization(s) :** Topology, Fuzzy set Theory

**Email(Official ID) :** dsasikala@psgrkcw.ac.in

#### Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Mathematics	Bharathiar University	2014
PGDCA	Computer Applications	Bharathiar University	2009
M.Phil.	Mathematics	Alagappa University	2006
M.Sc	Mathematics	Annamalai University	2003
B.Sc.	Mathematics	PSGR Krishnammal College for Women	1998

#### Additional Qualifications

Certification	Area of Specialization	Institution/University	Year
Certification	Essential Linear Algebra for Data Science	University of Colorado, Boulder	2023

<b>Certification</b>	Data Science Math Skills	Duke University	2023
<b>Certification</b>	Data Science	Mathematics for Machine Learning: Linear Algebra	2023

#### **Research Guidance**

<b>Programme</b>	<b>No of Scholars</b>	
	<b>Completed</b>	<b>Pursuing</b>
M.Phil.	11	Completed
Ph.D.	4	4

#### **Research Publications (Indexed)**

- Necessary or sufficient condition for Alexandroff topological spaces to be cordial graphic, Results in control and Optimization (2024) Vol 17, Elsevier.
- Innovative Expert System for Coronary Heart Disease using Diagnosis Utilizing Soft Sets, IEEE Xplore 2024, <https://doi.org/10.1109/CISCON62171.2024.10696680>
- A Contemporary postulates on resolvable sets and functions, Neutrosophic Sets and Systems, 2023, Volume 56, 326-337.
- The Role of Interior and closure operator in Medical Application, TWMS J.Apps and Eng. Math,2022, Volume 12, pp. 425 - 434.
- A New Perspective of Neutrosophic Hyperconnected Spaces,Neutrosophic Sets and Systems, 2022, Volume 51, pp. 619-632.
- An Elementary approach on Hyperconnected Spaces,Turkish Journal of Computer and Mathematics Education, 2021 ,vol 12, pp. 946-950. <https://doi.org/10.17762/turcomat.v12i9.3336>.

#### **Other Publications: International/National**

- Scholarly contributions include over 40 publications in reputed international and national journals,

#### **Acted as a Resource Person**

- 20 + invited talks in conferences, workshops and faculty development programmes and numerous papers presented at academic forums.
- Served as Convener for several National and International Conferences

#### **Doctoral Committee Member**

- Centre for Research, Anna University, Chennai.
- Kongu Nadu Arts and Science College, Coimbatore.
- LRG Government Arts and Science College, Thirupur.
- Nirmala College for Women, Coimbatore
- CBM college, Coimbatore
- Chikkanna college, Tirupur.

### **Member of Board of Studies**

- Kongu Nadu Arts and Science, Coimbatore.
- PSGR Krishnammal College for Women, Coimbatore
- Nirmala College for Women, Coimbatore.
- Sri Ramakrishna College of Arts and Science, Coimbatore.
- G.T.N Arts College, Dindugul.

### **Advisory Committee Member**

Sri Ramakrishna Arts and Science College, Coimbatore, Tamil Nadu.

### **Reviewer in journal**

- Advances in Fuzzy systems
- Journal of Advances in Mathematics and Computer Science ,
- Asian Journal of Pure and Applied Mathematics.

### **• Paper Presentations in Conference**

- Presented 30+ research papers in national and international conferences.

### **Participation in Workshop**

- Participated in 80+ workshops covering diverse topics such as “Soft\_Computing by Soft Sets”, “Awareness on Revised NAAC Norms and Procedures”, “Current Tenors in Graph Theory”, “Technology & Innovations in Math Education ,Computing Technologies and Mathematical Sciences,” “Application of Statistical Models in agricultural Sciences

### **Participation in Orientation / Refresher Course/ Short term course**

- Short term course on Education Technology organised by UGC - Malaviya Mission Teaching Training Center, 2024.
- 112 th Orientation Programme -2016 conducted by the UGC-Human resource Development centre, Bharathiar University, Coimbatore
- Short term Training Programme in Matlab- Statistics and Data Science -2020
- Short term Training Programme in Matlab and Mathematica for Scientific Research- 2020
- Refresher Course in Mathematics & Statistics ,UGC – Human Resource Development Centre, Bharathiar University- 2021
- Refresher Course in Mathematics ,UGC- Human Resource Development Centre, University of Allahabad - 2022

### Participation in Faculty Development Programme

- Participated in 40 + Faculty Development Programs (FDPs) on various topics, including "Research Perspectives in Mathematics and its Applications", "National Education Policy 2020 - Challenges in implementation in Higher Education", "e – filing of Income Returns", Redefining Education through Gamification, Managing Online classes and co – creating MOOCS", "Fuzzy mathematics and its Applications"

### Conference/Seminar/WorkshopOrganized

- Organized various conferences, workshops and seminars focused on Mathematical Analysis in computational biology and data science , Operation Research using TORA software, Statics and Dynamics with GNU- Fisica Lab

### Grants

- Funded by GRG Trust. Topic: An Expert System design to diagnose coronary artery disease using soft sets.

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	
Indian Science Congress Association	Life Member	
Teaching and Education Research Association	Life Member	

### Awards/Honors

- Appreciation award in 2024 , Lions Club of Coimbatore
- Appreciation Award in 2024, Nirmala College for Women
- Best Researcher award in 2019 by Indian Academic Researchers Association
- Best Department award in 2017 by PSGRKCW.
- Best faculty Coordinator Award in 2014 by Indian RedCross Society, Coimbatore.

### Indexing

- Published high-quality research articles indexed in prestigious databases such as Scopus, Web of Science, and Elsevier, contributing significantly to the academic community.

### Contribution

- YRC Coordinator
- Intercollegiate Coordinator
- Nodal Officer ERP - Bharathiar University
- Co ordinator ,DBT Star College
- Admission Co ordinator
- Committee Member NAAC
- Alumni Executive Member
- Committee Member, College Website
- Co ordinator, Fine Arts Association
- ISO Internal Auditor