

## Dr. M. Saravanan



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### QUALIFICATIONS:

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#### Research - Ph. D

- University: Anna University, Chennai, India
- College: SSN College of Engineering, Chennai, India
- Title: Vulnerability parameter in fuzzy graphs
- Year: 2015

#### State Eligibility test

- University: Mother Teresa University, Kodaikanal, India
- Subject: Mathematical Science
- Year: 2017

#### M.Phil

- University: MS University, Thirunelveli, India
- College: St.Xavier's College, Thirunelveli, India
- Subject: Mathematical Science
- Year: 2005

#### Post Graduate

- University: MS University, Thirunelveli, India
- College: Sri SRNM, Satur, India
- Subject: Mathematical Science
- Year: 2004

#### Under Graduate

- University: MS University, Thirunelveli, India
- College: Sri SRNM, Satur, India
- Subject: Mathematical Science
- Year: 2002

#### M.Tech

- University: MS University, Thirunelveli, India
- Subject: Computer & Information Technology
- Year: 2008

## EXPERIENCE

- Mannar Thirumalai Naicker College, Madurai  
❖ 20-08-18 to till date
- St. Joseph's College of Engineering, Chennai  
❖ 28-08-08 to 13-08-18
- Vel Tech, Chennai  
❖ 18-12-07 to 22-08-08
- Sardar Raja College of Engineering, Tirunelveli  
❖ 18-12-07 to 22-08-08
- Infant Jesus College of Engineering, Tuticorin  
❖ 10-08-05 to 01-06-07

## DETAILS OF PROFESSIONAL DEVELOPMENT PROGRAMMES ATTENDED

- a. Refresher Courses : 2
- b. Orientation Courses : 2
- c. Short Term Courses : 1
- d. Faculty Development Programmes (FDP) : 14

S. No	Name of the Professional Development Programme	Date and No.of Days	Name and address of the Institution imparting training
1	Faculty Induction Programme	18-11-2020 to 17-12-2020, 30 days	Bharathidasan University
2	Refresher Course - Applicable Mathematics	15/12/2021-29/12/2021, 14 days	Ramanujan College in collaboration with Deshbandhu College
3	Refresher Course - Mathematics	07-07-2022 to 20-07-2022	Pondicherry University
4	Faculty Induction Programme	Online Faculty Induction Programme in <i>PMMMNM</i> Tscheme	Ramanujan College, Delhi University
5	Short term course	Short term course on Research Methodology	HRDC, Bharathiar University
6	Online Faculty Development Programme	18 <sup>th</sup> May to 21 May 2020	Nirmala College for Women, Bharathiyar University
7	Faculty Development Programme	07.05.2020	Jerusalem College of Engineering, Anna University
8	Faculty Development Programme	30 <sup>th</sup> May to 3 <sup>rd</sup> June 2020	Satish Pradhan Dnyanasadhaa College, University of Mumbai

9	National level Faculty Development Programme	08.06.2020	GTN Arts College, Madurai Kamaraj University
10	Online National Faculty Enrichment Programme	13 <sup>th</sup> May to 19 <sup>th</sup> May 2020	Mannar Thirumalai Naicker College, Madurai Kamaraj University
11	Online Faculty Development Programme	10.06.2020	Mepco Schlenk Engineering College, Anna University
12	National level Enrichment Programme	28.05.2020	Mannar Thirumalai Naicker College, Madurai Kamaraj University
13	A Two days Online Faculty Development Programme	16 <sup>th</sup> May to 17 <sup>th</sup> May 2020	Patrician College of Arts and Science, University of Madras
14	Three days online Faculty Development Programme	28 <sup>th</sup> May to 30 <sup>th</sup> May 2020	St. Joseph's College of Engineering, Anna University
15	Two days Online International Faculty Development Programme	16 <sup>th</sup> June to 17 <sup>th</sup> June 2020	St. Joseph's College of Engineering, Anna University
16	Faculty Development Programme	June 2014	SSN College of Engineering, Anna University
17	Faculty Development Programme	24 – 7 – 15 to 25 – 7 – 15	KCG College of Technology
18	Faculty Development Programme	23 – 28, Nov. 2015	IMSc., Chennai
19	Faculty Development Programme	5-7, June 2017	SSN College of Engineering

#### **DETAILS OF WORKSHOPS / CONFERENCE ATTENDED:**

S.No	Name of the Programme	Name of the Institution	Date
1.	National Virtual Workshop on Machine Learning	SSN College of Engineering	17-04-2023
2.	Changing Role of Teachers: NEP (2020) Perspectives	HRDC Bharathidasan University	08-09-2022
3.	21 <sup>st</sup> Century Education: Changing Role of Teachers	HRDC Bharathidasan University	07-09-2022

4.	In-service Teacher Training Programme	TANSCHE	05-06, May 2022
5.	NATIONAL SYMPOSIUM ON MATHEMATICS AND ITS APPLICATIONS	IIT Madras	22/12/2021
6.	Stochastic process and its applications	Vivekananda College	18-10-2021
7.	Evolution from Offline to Online Teaching	Satish Pradhan Dnyanasadhana College	30 <sup>th</sup> May to 3 <sup>rd</sup> June 2020
8.	Short Term Course on Research Methodology	Bharathiyar University	14-16,, October 2020
9.	Data Analysis & Visualization of COVID-19 Dataset Using Python	Jerusalem College of Engineering	07.05.2020
10.	Post COVID – 19 Rejuvenation	Nirmala College for Women	18 - 21 May 2020
11.	Project Proposals for Funding Agencies: Preparation and Submission Protocol	Patrician College of Arts and Science	16 <sup>th</sup> - 17 <sup>th</sup> May 2020
12.	Future of Examinations: Bloom’s Taxonomy and Multiple Assessment Tools	GTN Arts College	08.06.2020
13.	Introduction to Fuzzy sets and Its Generalization	MEPCO Schlenk Engineering College	10.06.2020
14.	Recent Advances in Graph Theory and Neural Networks	St. Joseph’s Institute of Technology	14 to 16 <sup>th</sup> July 2020
15.	Fuzzy Mathematical Modelling	St. Joseph’s College of Engineering	16 <sup>th</sup> June to 17 <sup>th</sup> June 2020
16.	National Maths Day Celebration & World record	MTN College	21-12-2022 and 22-12-2022
17.	National level conference on “Current trends in Applied Mathematics & IPR” NCCTAM & IPR 2022	MTN College	07-10-2022
18.	Faculty Research Programme on Dynamics of Research Publications	MTN College	15-09-2022 and 16-09-2022

19.	Present Scenario in Mathematical Research (PSMR-2022)	MTN College	16-07-2022
20.	A one day offline Discourse on Preparing The Institution For Accreditation In The Post-Pandemic Period	MTN College	30-04-2022
21.	Education 4.0 for sustainable economic development	MTN College	27-04-2022
22.	Enhancing Quality By Unearthing Innovative Practices - EQUIP 2022	MTN College	18-24, April, 2022
23.	Online National Faculty Enrichment Programme	MTN College	13 <sup>th</sup> -19 <sup>th</sup> May 2020
24.	Franchising the way forward	MTN College	28.05.2020
25.	Quality Assurance and Sustenance in Higher Education	MTN College	11-03-2020
26.	21st Century Skills	MTN College	05-03-2020
27.	Promotion of API Score and CAS	MTN College	03-03-2020
28.	Research Writing and Publications Theory and Practice	MTN College	19-10-2019
29.	Outcome Based Education	MTN College	28-08-2019
30.	Promotion of API Score and CAS Filing	MTN College	02-03-2019
31.	One day training and production workshop on prospects of Outcome Based Curriculum	MTN College	09-03-2019

## PAPERS PRESENTED IN CONFERENCES:

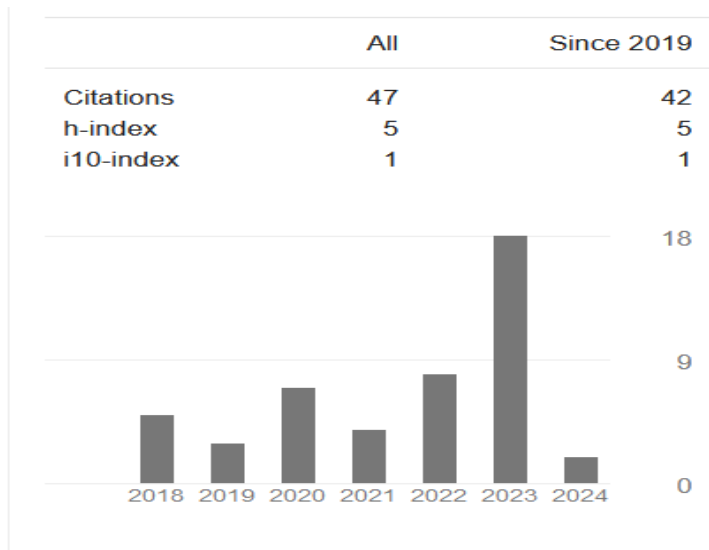
S. No	Name of the Programme	Name of the Institution	Title of the paper	Date
1	National Conference on Fuzzy Theory & Applications	KCG College of Technology	Integrity of fuzzy graphs	24th & 25th July 2015
2	Third SRESA National Conference on Reliability & Safety Engineering	SSN College of Engineering	Application of domination integrity of graphs in PMU placement	01-03, Dec, 2016
3	International Conference on Mathematical Methods, Modeling and Simulation in Chemical Sciences	SSN College of Engineering	Centrality concepts in graph theory	06 - 08 Dec. 2018
4	International conference on Recent Advancement in Material Science and its applications	MTN College	Graph set and Crystal Structure analysis of a Novel Thienocarbazole compound	11-01-2023 to 12-01-23

## PUBLICATION DETAILS

S. No	Title of paper	Name of the author/s	Name of journal	Month & Year of publication	ISSN number
1	Subswitching in graphs	S Karthigai Selvam, B Vasudevan, S Rajeev Gandhi, M Saravanan, A Nageswari	The International Journal of Interdisciplinary Organizational Studies	June 2023	ISSN 2324-7649 (P) ISSN 2324-7657(E)
2	A study on regular fuzzy graphs and integrity of fuzzy graphs	Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman	International Journal of Applied Engineering Research (IJAER)	2015	0973-4562.
3	Application of domination integrity of graphs in PMU placement in electric power networks	Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman; And Balasubramanian, Muthu Selvan	Turkish Journal of Electrical Engineering & Computer Sciences	27-07-18	1300-0632, eISSN: 1303-6203

4	Concept of integrity and its value of fuzzy graphs	Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman	Journal of Intelligent & Fuzzy Systems	19-04-18	1064-1246 (P) / 1875-8967 (E)
5	Domination integrity and Efficient fuzzy graphs	Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman;	Neural Computing and Applications	24-10-19	1433-3058(E), 0941-0643
6	Edge integrity for signed fuzzy graphs	Sankar Chakravarty; Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman;	Journal of Intelligent & Fuzzy Systems	10-08-22	1064-1246 (P) / ISSN 1875-8967 (E)
7	Brain Network Analysis Through Span Integrity of Fuzzy Graphs	Saravanan, Mariappan; Sujatha, Ramalingam; Sundareswaran, Raman;	New Mathematics and Natural Computation	07-06-22 (online)	1793-0057   ISSN N (o): 1793-7027
8	Simple Graphoidal Cover on Bicyclic Graphs	Saravanan, M; Venkatnarayanan, G	Indian Journal of Natural Sciences	Feb - 2023	ISSN: 0976-0997
9	Decomposition Of Complete Bipartite Graphs Into Paths And Cycles Using 2-Simple Graphoidal Covers	Saravanan, M; Venkatnarayanan, G	European Chemical Bulletin	2015	ISSN 2063-5346
10	Integrity of Fuzzy graphs	M.Saravanan, R.Sujatha, R.Sundareswaran	Bulletin of International Mathematical Virtual Institute	Feb 2016	<u>ISSN (p)</u> 2303-4866, <u>ISSN(o)</u> 2303-4947

## CITATION INDEX



**GUIDESHIP:**

- ❖ Mathematics, Faculty of Science, Madurai Kamaraj University, Madurai,

**SCHOLAR DETAILS:**

Applicant Name	Application no.	Registration No.
Miss / Mrs. LOGESWARIDHIVYA H	MKU/PhD/24/0002	MKU24PFOS11435
Mr. CHARLES PREM ANAND J	MKU/PhD/24/0050	MKU24PFOS11479
Mr. KARTHIK VENDHAN K	MKU/PhD/24/0049	MKU24PFOS11511

**SPECIAL ADDRESS DELIVERED:**

- ✓ Thiravium College of Arts & Science, Guest Lecture on 24-09-2019
- ✓ Kendra Vidyalaya – II Madurai, Subject Expert for Mathematics interview board on 12-03-2023

**NUMBER OF PROJECTS GUIDED : PG → 22 STUDENTS**

**NUMBER OF CONFERENCES, SEMINARS, WORKSHOPS AND OTHER PROGRAMMES ORGANIZED:**

Name of the Programme	Date	Role	Name of the Institution
Recent Trends in Mathematical Modelling	27.06.2020	Convenor	MTN College
Two days workshop on CSIR/NET/TNSET preparation	24th & 25th March 2022	Convenor	MTN College

**OTHER DISTINCTION**

- Reviewer in 3 international indexed journals
- Question setter for various autonomous institutions and universities.



## **SERVICES RENDERED IN THIS COLLEGE**

<b>Name of the Activity</b>	<b>Period</b>
Assistant Controller of Examinations	08-07-2019 to 08-01-2023
Controller of Examinations	09-01-2023 to till date
UMIS Nodal officer	2023 to till date
Governing Body member	2023 to till date
Academic Council Member	2023 to till date
Finance Committee Member	2023 to till date
Planning Board Member	2023 to till date
Planning and Evaluation Board Member	2023 to till date
Awards Committee Member	2023 to till date
Grievance Redressal Committee Member	2023 to till date
National Academic Depository Member	2023- 2024
Examination Committee Member	2019 to till date
Examination Disciplinary Committee Member	2019 to till date