

# CURRICULUM VITAE

## A. GENERAL INFORMATION

- a) Name : Dr. P. PANDIAMMAL
- b) Designation : Assistant Professor
- c) Department : Mathematics
- d) Age & Date of Birth : 41 years & 05.07.1981
- e) Area of Specialization : Fuzzy Algebra, Operations Research,  
Fuzzy Logic, Fuzzy optimization  
Techniques, Graph Theory
- f) Date of Appointment : 26.02.2016
- g) Date of Retirement : 05.07.2041



## B. ACADEMIC QUALIFICATIONS

Exam Passed	Board/University	Year	Division/Grade/ Merit etc
B.Sc.	MVM Govt. Arts College for Women, Dindigul Aff. to Madurai Kamaraj University	April 2002	I Class
M.Sc.	Madurai Kamaraj University, Madurai	April 2004	I Class
Research Degrees	(a) M.Phil., Alagappa University, Karaikudi.	May 2005	Distinction - 8.1 grade
	(b) Ph.D. Alagappa University, Karaikudi	May 2012	Commended

C. Total Teaching Experience: 16 years 08 months

#### D. Professional Information

Course Taught	Name of the University/ College/Institution	Year and Month of Experience
UG - B.E./B.Tech Engg. Mathematics-I, II, III	Bharathidasan Institute of Technology, Trichy	2006-07, 8 months
UG - B.E./B.Tech & PG - M.Sc.,(IT) Engg. Mathematics-I, II, III Transforms & Mathematical Application	M. Kumarasamy college of Engg., Karur	2007 , 6 months
UG - B.E./B.Tech & PG - MCA Engg. Mathematics-I, II, TPDE, Probability & Queuing Theory	PSNA College of Engineering & Technology, Dindigul	2008-2015, 7.6 years
UG (Major & Ancillary Mathematics) B.Sc., PG- M.Sc., Mphil	GTN Arts College, Dindigul	Feb. 2016 to till date

### E. Orientation Course, Refresher, Short Term Courses Attended

Sl. No.	Name of the Institution/University	From	To
1	Orientation Programme, UGC - Human Resource Development Centre, Bharathidasan University, Tiruchirappalli.	18.05.2018	14.06.2018
2	Two weeks Faculty Development Programme on "Managing Online Classes and Co-creating MOOCS", Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MHRD	20.04.2020	06.05.2020
3	Refresher course in mathematical Tools for Physical and Computational Sciences, UGC- Human Resource Development Centre, Doctor Harisingh Gour Vishwavidyalaya (A Central University), Sagar, MP, India.	24.09.2021	08.10.2021

### F. Seminars, Conference, Symposia, Workshops etc., attended:

S. No.	Name of the Seminar /Conference /Symposia /Workshop/Course	Name of the Sponsoring Agency	Place & Date
1	National Seminar on <i>Algebraic and Analytic Methods</i>	Department of Mathematics, Alagappa University, Karaikudi	Alagappa University, Karaikudi 19 <sup>th</sup> & 20 <sup>th</sup> March 2005
2	National Seminar on <i>Fuzzy Mathematics and its Applications</i>	School of Mathematics, Alagappa University, Karaikudi	Alagappa University, Karaikudi 9 <sup>th</sup> March 2009
3	National Conference on Applicable Mathematics	UGC Sponsored National Conference	Jayaraj Annapackiam college for women, Periyakulam 20-21 Dec., 2011
4	National Conference on Modern Aspects of Theoretical and Applied	Department of Mathematics, PSNA College of Engg. & Tech.,	PSNA College of Engg. & Tech., Dindigul

	Mathematics	Dindigul	09-10 April, 2015
5	Emerging Trends in Accessing Electronic Resources- one day FDP	Internal Quality Assurance Cell & Library, GTN Arts College, Dindigul	GTN Arts College, Dindigul 4th February 2017
6	Research process easier, effective and for a Qualitative research	PG & Research Department of Chemistry & central Library, GTN Art college, Dindigul	GTN Arts College, Dindigul 28 <sup>th</sup> February 2017
7	Relevance of Mathematics in scientific computing & engineering discipline	Tamil Nadu state council for science & technology sponsored National Workshop	Crescent University, Chennai 12 <sup>th</sup> & 13 <sup>th</sup> May 2017
8	International Conference on Mathematical computer Engineering	VIT University, Chennai	3 <sup>rd</sup> and 4 <sup>th</sup> November 2017
9	A STTP on Graph theory and applications	SRM University. Chennai	3 <sup>rd</sup> and 4 <sup>th</sup> November 2017
10	A STTP on Stochastic Processes and their Applications	SRM Institute of Science and Technology, Kattankulathur, Chennai	8 <sup>th</sup> and 9 <sup>th</sup> November 2019

## G. Achievement

1. Selected as resource person by Anna University to deliver the first year courses in Mathematics through A-VIEW (live telecast) to all the affiliated Engineering Colleges of Anna University.
2. Acted as a resource person by PSNA College of Engineering and Technology to delivered "Statistical Concepts: Sampling and Resampling" on 19.06.2017.
3. Acted as a Judge for the District level show casing of the Project by name SCOPE (Specific Concept Oriented Project Experience) which was held on 30<sup>th</sup> November 2019 at SMBM Matric Higher Secondary School, Dindigul.

4. "An IOT' enabled foot operated two wheeler steering mechanism for handicapped persons", the patents has granted by "the certificate of grant innovation patent" on 30<sup>th</sup> September 2020. (Patent number: 2020102133)
  
5. Title of the granted invention,"A Machine Learning regression vector for managing various aspects in the field of agriculture" by intellectual property India on 19.04.2021

## H. Other Credentials

- Passed Hindi (Prathamic & Madhyama).
- Completed NCC with Certification B as a Cadet.
- Completed Typewriting Lower and Higher both in English and Tamil.
- Having Ph.D., Guideship in M K University, Madurai.
- Published a book on "Statistical and Numerical Methods on solving problems" , 2021
- Reviewer of Manuscript for Journal of Fuzzy Extension and Applications from 2021 to till date.

## I. Paper Published (Seminars, Conferences, Workshop)

S. No.	Journal Type	Name of the Journal	Title of Publication	Month & Year of Publishing
1	International Journal	Antarctica J. Math., Vol. 7, number 6	Anti L-fuzzy M-subgroups Page No.683-691	2010
2	International Journal	International journal of Artificial Intelligence & Robotic Research, Vol 1, number1	Anti L-fuzzy M-cosets of M-groups, Page No. 43-45	November 2010
3	International Journal	International journal of Computer Applications,	A Study on Bi HX-group	November 2010

		Number 2	Page No.1-4	
4	International Journal	International journal of Computer Applications, Vol.11, Number10	Anti L-fuzzy Normal M-subgroups Page No. 12-16	December 2010
5	International Journal	Antarctica J. Math., Vol. 8 number1	A Study on Lower Level subsets of Anti L-fuzzy M-subgroups Page No.41-49	January 2011
6	International Journal	International journal of Computer Applications, Vol. 27 Number 9	Intuitionistic L-fuzzy M-subgroups Page No. 27-32	August 2011
7	International Journal	Advances in Fuzzy Sets and Systems Vol.9, Number 2	Intuitionistic L-fuzzy Normal M-subgroups Page No.123-135	September - 2011
8	International Journal	International journal of Computer Applications, Vol. 61, Number 5	Intuitionistic L-fuzzy Translation Page No. 46-49	November- 2013
9	International Journal	International Journal of Computer & Organization Trends Vol. 5	A Study on Intuitionistic Anti L-fuzzy M-subgroups Page No.43-52	February-2014
10	International Journal	International Journal of Computer & Organization Trends Vol. 13, Number 1	A Study on Intuitionistic Anti L-fuzzy Normal M-subgroups	October - 2014
11	International Journal	International Journal of Computer & Organization Trends Vol. 18, Number1 ISSN: 2249-2593	Homomorphism and Anti-homomorphism of an Intuitionistic Anti L-fuzzy Translation Page No. 16-21	March - 2015

12	International Journal	International Journal of Applied Engineering Research Vol.10, Number 85	Bio-Friendly EPQ Inventory model incorporating the cost of green energy to create light pollution free society Page No.423-424	2015
13	International Journal	International Journal of Innovative Research in science, Engineering and Technology Vol.10, Number 85	An Inventory Model with the inclusion of Eco-conscious Production cost Parameters	December 2016
14	International Journal	International Journal of Advanced Research Vol. 4, Issue 7	Optimization of an economic green manufacturing inventory model using fuzzy geometric programming P. No.: 211-216	2016
15	International Journal	International Journal of Pure and Applied Mathematics Vol.113, No.6	An investigation of the risk factors inducing insomnia using fuzzy weighted multi expert neural network system	2017
16	International Journal	International Journal of Computational and Applied Mathematics Vol.12, No.1	An investigation of the combined Effects of E-commerce and Digitalization on production sectors using Nonagonal fuzzy relational maps	2017
17	International	Global Journal of Pure and Applied	Outlook of Employee	2017

	Journal	mathematics, Research India publication  Vol.13, No.1	predominant professional standards in Nanotopological perspective	
18	Elsevier	Science Direct, Materials today: Proceedings 4	An analysis of the associated implications of Green manufacturing using Fuzzy Cognitive maps  P. No.:4219-4227	2017
19	International Journal	International Journal of Research in Management & Social Sciences  Vol.5, Issue 3 (I)	An analysis of consequential impact of gender mainstreaming of Educational institution of gender equity management using Fuzzy clustering	2017  (July - Sep.)
20	International Journal	International Journal of Engineering & Technology  Volume 7(3.10)	Exploring the core attributes of digitalization causing high impact on learning trends of students using LIFAM	2018  P.No.:169-172
21	International Journal	International Journal of Pure and Applied Mathematics  Vol.120, No. 9  ISSN: 1314-3395	Analysis of waste Management Techniques of tanneries using weighted digraphs combined with DEMATEL and AHP	2018  October  P. No.: 21-29
22	International	Journal of Applied Sciences and	Economic production	2018



	Journal	computations  Vol.V, Issue XI ISSN:1076-5131	quantity model for green quality products with its associated costs of product switching and three step production processes	(November)
23	International Journal	Global journal of Pure & Applied mathematics  (RIP Publications)  Vol.14, No.:1 ISSN:0973-1768	Intuitionistic fuzzy statistical on professional perception of futuristic transitional impacts of digital India on higher education	2018  P. No.:153-159
24	International Journal	International Journal of basic and applied research.Vol. 9, No.6  UGC Approved Journal. ISSN: 2249-3352. Impact Factor:5.960	Contemporary Challenges of Digital Marketing: Ranking Analysis by Fuzzy Cognitive Map	2019  (June)
25	International Journal	Pramana Research Journal  Vol.:9, Issue 6	Octa Hexa fuzzy PROMTHEE for ranking feasible industrial waste management methods	2019  (June) ISSN: 2249-2976
26	International Journal	Infokara Research  Vol.:8, Issue 11	Higher Educational Institutions-the generators of various of genres of Entrepreneurs: A Fuzzy Cognitive Investigation	2019  (June) ISSN: 1021-9056

27	International Journal	Journal of Information and Computational Science Vol.:9, Issue 8	Student's Low Academic Performance Appraisal model with Hyper graphic in FCM	2019 (June) ISSN: 1548-7741
28	International Journal	Malaya Journal of Matematik Vol.:8, No. 1	Decision making on E-waste management methods using minimization of regret with interval valued Intuitionistic fuzzy sets	2020  (222-224) ISSN:2319-3786
29	International Journal	Neutrosophic sets and systems Vol.:35	Exploration of the factors causing Autoimmune diseases using FCM with concentric Neutrosophic Hypergraphic approach	2020  (232-238)
30	International Journal	Solid State Technology Vloume:63 Issue:5	Smart Materials selection using COPRAS in Lingual Neutrosophic Environment	2020  (2574-2580)
31	International Journal	Stochastic Modeling & Applications UGC CARE approved Journal	FCM Integrated Fuzzy Graph theory matrix MCDM of Lifelong learning models	2022 January-June Vol.26 No.3 ISSN 0972-3641

### J. Paper Presented (Seminars, Conferences, Workshop)

S. No.	Name of the Programme	Theme	Title of Publication	Venue & Date
1	National Level	Applied	An Ant Colony	Jeyaraj Annappaikiam

	Conference	Mathematics	Optimization	College for women. Periyakulam 20 <sup>TH</sup> & 21 <sup>ST</sup> Dec. 2011
2	First International Conference	Modelling, Simulation & Control 2015	Bio - Friendly EPQ Inventory Model incorporating the cost of green energy to create light pollution free society	Karpagam College of Engineering  15.10.2015
3	Two days National Conference	Applications of Pure and Applied Mathematics	Advertisements in consumer's purchasing behaviour- An Induced Linked Fuzzy Cognitive Map (ILFCM) Analysis	Alagappa University  30.03.2016
4	National Conference	Mathematical Science and Applications	An analysis of the Health Issues of Youth screen mobiles in youth using simple FCM	Mangayarkarasi college of arts and science for women  1.10.2016
5	UGC Sponsored National Conference	Recent Trends in the Applications of Mathematical Sciences	Isomorphism and Anti isomorphism of Intuitionistic Anti L-fuzzy M-cosets of M-subgroups	Vellalar College for women  8 <sup>th</sup> and 9 <sup>th</sup> September 2016
6	National Conference	Emerging Trends in Mathematical Sciences	Outlook of Employment predominant professional standards in Nanotopological perspective	S. A. Engineering College  22 <sup>nd</sup> December 2016
7	UGC Sponsored National	Present Scenario in Graph Theory	Profit maximization of E-inventory	Mannar Thirumalai

	Conference		model considering of E-commerce	Naicker college December 2016
8	International Conference	Mathematical Computer Engineering	A Study on the risk factors of insomnia causing health disasters using fusion method	VIT University 16 <sup>th</sup> & 17 <sup>th</sup> December 2016
9	UGC Sponsored National Conference	Recent advances in Pure and Applied Mathematics	Laplacian Singularity of weighted directed graphs	Arul Anandhar College 13.2.2017
10	International Conference	Newer Engineering concepts and Technology	Inventory Model encompassing the features of Industrial ecology in start-up industry	K.Ramakrishnan college of Technology 28 <sup>th</sup> & 29 <sup>th</sup> March 2017
11	International Conference	Modeling Simulation and control	Exploration of factors causing immorality behavior in childhood from teachers perspective using nonagonal weights	Karpagam college of Engineering 1 <sup>st</sup> & 2 <sup>nd</sup> April 2017
12	International Conference	Mathematical Computer Engineering	Analysis on waste management techniques of Tanneries using weighted digraphs combined with DEMATEL and AHP	VIT University, Chennai 3 <sup>rd</sup> & 4 <sup>th</sup> November 2017
13	International Conference	International Conference on recent trends in multi disciplinary research	Ranking the problems of corporate man power and its solutions using ELECTRE method	V.O. Chidambaram college, Thoothukudi 19 <sup>th</sup> & 20 <sup>th</sup> April 2018

14	International Conference	International Conference of Multidisciplinary approaches in social sciences, humanities and Sciences	Is Urbanization a cause of health disaster: Ranking analysis by decagonal FCM	Sri Ramasamy Naidu Memorial College, Sattur, Tamil Nadu 14 <sup>th</sup> December 2018
15	National Conference	National Conference on Recent Advances in Pure & Applied Mathematics	On Neutrosophic multi M-subgroups and Applications	Arul Anandhar College 19 <sup>th</sup> February 2020
15	International Conference	International Conference on Advances in Applicable Mathematics (UGC SAP sponsored)	FCM with linguistic concentric fuzzy hyper graphic approach to rank benefits of outcomes based education	Bharathiar University, Coimbatore 21 <sup>st</sup> & 22 <sup>nd</sup> February 2020
16	International web Conference	International Web conferencing on smart engineering technologies 2020	Plithogenic Ranking approach in exploring requirements of smart small scale factories	RAMCO Institute of Technology, Rajapalayam 26 <sup>th</sup> & 27 <sup>th</sup> , June, 2020
17	National conference	Second National conference on emerging trends in Engineering sciences	Optimal Plithogenic Multi-criteria decision making on Food processing techniques	17 <sup>th</sup> May 2021
18	International Conference	Two-day international conference on "Exploration of Contemporary Mathematical Sciences -2022"	On Anti Homomorphism of Neutrosophic Triplet M-group	17 <sup>th</sup> & 18 <sup>th</sup> March 2022
19	2 <sup>nd</sup> International	International Conference on	LOCF success	29 <sup>th</sup> October

	Conference	New Frontiers of Engineering, Management, Social Sciences and Education	strategies	2022
20	International Conference	International Conference on Analysis and Number Theory-2022	Mastitis Disease in Dairy Cattle using Artificial Neutral Networks	27 <sup>th</sup> -29 <sup>th</sup> October 2022

### K.FDP Details

1. Completed online two-week refresher course on “Research Methodology” from 20<sup>th</sup> July – 03<sup>rd</sup> August 2021 and obtained Grade A+, Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Ministry of Education P MMMNM on teachers and teaching.
2. Completed inter-disciplinary online two-week refresher course on “Managing online classes & co-creating MOOCS 7.0” from 05-19 August 2021 and obtained Grade A+, Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Ministry of Education P MMMNM on teachers and teaching in collaboration with CMS College, Kottayam, Kerala.
3. Completed Two Week “Refresher course in Mathematics” organized by the department of Mathematics, Ramanujan College from 31<sup>st</sup> August 2021 to 14<sup>th</sup> September 2021 and obtained Grade A+, Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Ministry of Education P MMMNM.

### L. Guest Lecture

1. Delivered a Lecture on “Statistical Concepts: Sampling and Resampling” to the training faculty members, PSNA College of Engineering and Technology, Dindigul on 19.06.2017.
2. Delivered a Lecture on “Data Analytics using R” (Five day online workshop), Research Development Cell, G T N Arts College, in collaboration with research council Arul Anandar College, Karumathur on 05<sup>th</sup> to 09<sup>th</sup> July, 2021.

3. Delivered a Lecture on “R-programming” (Three day online Workshop), the Department of Mathematics, G T N Arts College in collaboration with Arul Anandar College, Karumathur on 18<sup>th</sup> to 20<sup>th</sup> November, 2021.
4. Delivered a Lecture on “Real life application of Fuzzy System” to UG & PG students, Amman College of Arts & Science, Dinidgul on 10.12.2021.
5. Delivered a Lecture on “Real life applications of Fuzzy Logic”, Parvathys Arts and Science College, Dindigul on 18<sup>th</sup> August 2021.
6. Delivered a Lecturer on “Applications of Fuzzy logic” to UG and PG students, St. Antony’s College of Arts and Science for Women, Dindigul on 1.10.2022.

### **M. Paper Setters in other Institutions**

1. Paper Setter - Arul Anandar College (Autonomous), Karumathur-625514, Madurai.

### **N. Administrative/Academic Positions (held/currently holding) Social Activities:**

<b>Positions held/currently holding</b>	<b>Year-from(month/year)to (month/year)</b>
Member, IQAC	2020 to till date
Coordinator, Question Bank	2020 to till date
Mentor in the UGC - Student induction Programme (SIP)	2021-2022

### **O.Membership Details**

- Life Time Member in ISTE
- Life Time Member in REST Society
- Life Time Member in the Association of Mathematics Teachers of India.