

RESUME



NAME : Dr.S.VIJAYABALAJI

DATE OF BIRTH : 03-02-1977

NATIONALITY : INDIAN

EDUCATIONAL QUALIFICATIONS :

S.No	Degree	Subject	College/ Univer- sity	Year of passing	Class with percentage
1	B.Sc	Mathematics	St.Joseph's College of Arts and Science, Cuddalore / University of Madras	1997	74 percentage- I class, I rank
2	M.Sc	Mathematics	Annamalai Uni- versity	1999	80.25 percentage, I Class with distinction, I rank
3	M.Phil	Mathematics	Annamalai Uni- versity	2000	83 percentage, I class
4	Ph.D	Mathematics	Annamalai Uni- versity	2007	Degree awarded, Highly commended

PRESENT POSITION :

Assistant Professor (Selection Grade)

Department of Mathematics (Science and Humanities)

University College of Engineering Panruti

(A Constituent College of Anna University Chennai)

Panruti-607106.

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COUNTRIES VISITED: Malaysia during June 12-14, 2012 to attend an

International Conference- ICFAS 2012 and Chaired a session at the Conference.

TEACHING EXPERIENCE: 25 years (with 17 years of Government service from 1-9-2008)

1. Periyar Arts College, Cuddalore- Guest Lecturer (01-07-2000 to 31-03-2001).
2. Krishnasamy College of Engineering and Technology-Lecturer and H.O.D, Cuddalore (16-08-2001 to 31-03-2003 and 01-04-2005 to 20-04-2007 with two years research experience from 2003-2005)
3. VIT university, Vellore – Lecturer- 2 months (23-04-2007 to 08-06- 2007).
4. V.R.S College of Engg. and Tech, Villupuram -Assistant Professor (02-07-2007 to 30-04-2008).
5. Dr.Pauls Engg. College, Villupuram District, -Assistant Professor (09-07-2008 to 28-08-2008).
6. University College of Engineering Panruti (Erstwhile Anna University Tiruchirappalli, Panruti Campus) - Lecturer (Contract) (01-09-2008 to 14-09-2009).
7. University College of Engineering Panruti- Assistant Professor (15-09-2009 to 15-09-2013).
8. University College of Engineering Panruti- Assistant Professor (Senior Grade) (15-09-2013 to 15-09-2018).
9. University College of Engineering Panruti- Assistant Professor (Selection Grade) (15-09-2018 to till date).

RESEARCH EXPERIENCE: 23 years

AREA OF RESEARCH : n- normed linear space, Fuzzy n- normed linear space, Hybrid structures of rough sets, soft sets, soft-rough sets, neutrosophic sets and their applications, Matrices in these structures and their applications in decision making.

No.of M.Phil guided: 1

No.of Ph.D guided: 7

S.No	Name of the Ph.D Scholars	Date of Viva voce	Title of the thesis	University
1	Mr.S.sivaramakrishnan	06.01.2016	A study on cubic linear spaces and cubic M -semigroups	Anna University
2	Mr.J.Parthiban	10.03.2017	A study on valued n - normed linear space and valued n - inner product space	Anna University
3	Mr.G.Shyamsundar	15.12.2017	A study on fuzzy transition matrices and product fuzzy soft matrices	Anna University
4	Mr.A.Ramesh	19.06.2020	Uncertain multiplicative soft sets, Belief interval-valued soft set in fuzzy expert system and their applications	Anna University
5	Mr.P.Balaji	28.12.2021	Probabilistic linguistic fuzzy rough sets, rough matrices and their applications	Anna University
6	Mr.S.Kalaiselvan	21.07.2023	Fuzzy soft expert symmetric groups, soft expert rough fuzzy sets and their applications	Anna University
7	Mr.N.Sathiyaseelan	10.08.2023	Symmetric matrices on inverse soft expert sets, rough sets and their applications	Anna University

No.of Ph.D ongoing: 4

ACADEMIC PRIZES AND AWARDS :

1. Received II prize in English University examination during B.Sc Mathe-

mathematics (II year) degree course at St.Joseph's College of Arts and Science, Cuddalore-1.

2. Received I prize in main University examination during B.Sc Mathematics (III year) degree course at St.Joseph's College of Arts and Science, Cuddalore-1 and declared as **Best Outgoing Student in the Department of Mathematics during 1997.**

3. Received , “ The Prof.V.Ganapathy Aizar Prize ” (For securing highest mark in I year M.Sc Mathematics at Annamalai University).

4. Received, “ Prof.N.Ganesan Prize Endowment “ (For securing Highest Marks in M.Sc Mathematics, Subject: Algebra (I and II Semester) at Annamalai University).

5. Received, “ The Ramanujan Centennial award out of Pro- Chancellor Dr.M.A.M Ramasamy Endowment,” (For having been adjudged as the Meritorious student of M.Sc Mathematics during 1998-99 at Annamalai University).

6. Received, “ The S.V.Ramamurthy Mathematics Prize” (For securing highest mark in M.Sc Mathematics (First rank) at Annamalai University).

7. Received, “ The Mrs.Little hailes M.Sc (Mathematics) Prize” (For securing First rank in M.Sc Mathematics Degree course at Annamalai University).

RESEARCH AWARD AND OTHER AWARDS :

1. Received, “ **IMRF Best Researcher Award 2024** ” in recognition of the consistent superior performance in Mathematics on the eve of seventy fifth republic day, awarded by IMRF Institute of Higher Education and Research, India.

2. Received, “ **Sevisemmal Award-2017** ” for making the students to participate in the State level competetion associated with Tamil language, jointly organized by Tamilnadu Arts Literature Society and kavinjan Pathipagam.

3. Received, “ **Agathiyar Gnana Sudar Award** ” in the year 2017 for making more number of students to participate in the State level competetion associated with Tamil language, organized by Agathiya Mamunivar Arts Literature Research Society, Agastheeswaram.

EXTRA CURRICULAR ACTIVITIES :

1. Received consolation prize for participating in Mahakavi Bharathiar birthday celebration Tamil Poetry competition held at Puducherry during 18-12-1993.

2. Participated in the foot ball game at A.R.L.M. Mat.Hr.Sec.School (grade super seniors) during 1993-1994 and was a member of winner-up team.

3. Participated in the Ball Badminton game at A.R.L.M.Mat.Hr.Sec.School (grade super seniors) during 1992-1993 and was a member of runners-up team.

4. Participated in the Ball Badminton game at A.R.L.M.Mat.Hr.Sec.School (grade super seniors) during 1993-1994 and was a member of runners-up team.

5. Participated in Intramural Games Meet at St.Joseph's College of Arts and Science, Cuddalore (Ball Badminton) during 1995-96 and was a member of winner-up team.
6. Participated in the Ball Badminton game at University College of Engineering Panruti Intramural 2012-2013, 2013-2014, 2014-2015 and was a member of winner-up team.

PROFESSIONAL STANDING:

1. I have served as DC member for Ph.D students at various Universities such as Anna University (Constituent and Affiliated Colleges), VIT University and Karunya University.
2. I have served as referee for evaluating research papers for several reputed international journals such as Journal of Franklin Institute (Elsevier Journal), Iranian Journal of Fuzzy systems, Journal of Advanced Research in Pure Mathematics, Journal of Intelligent and Fuzzy Systems and Soft Computing and Neutrosophic Sets and Systems.
3. I have served as examiner for various Universities such as Annamalai University, Bharathiar University, Karunya University, Sona Engineering College, University of Madras, St.Joseph's College of Arts and Science, Cuddalore.
4. I have served as member of Board of studies for various Universities such as University of Madras, St.Joseph's College of Arts and Science, Cuddalore.

BOOKS PUBLISHED: 4 (National-1, International- 3)

1. Published a book entitled, "Fuzzy n-normed linear space" co-authored with Dr.N.Thillaigovindan and Dr.S.Anitha Shanthi at LAMBERT ACADEMIC PUBLISHERS, GERMANY, 2010 (ISBN :978-3-8433-8121-5).
2. Published a book entitled, ' Resource Management Techniques' at Sri Krishna Hi Tech Publishers, Chennai during 2017 (ISBN: 978-93-86590-16- 9).
3. Published a book entitled, " Cubic n- normed linear space" at LAMBERT ACADEMIC PUBLISHERS, GERMANY, 2017 (ISBN:978-620-2-01822-7).
4. Published a book entitled, " Cubic soft- rough matrices" at LAMBERT ACADEMIC PUBLISHERS, GERMANY, 2018 (ISBN:978-3-330-02370-3).

CHAPTERS IN EDITED BOOKS: 11

1. S.Vijayabalaji, " Picture fuzzy soft matrices", Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences, CRC Press, Taylor and Francis Group, Chapter 7, pp.111-120, 2021 (ISBN:978-0-367-75068-8).
2. S.Vijayabalaji, S.Sivaramakrishnan and P.Balaji, " Cubic n- inner product space", Soft Computing Techniques in Engineering, Health, mathematical and Social Sciences, CRC Press, Taylor and Francis Group, Chapter 8, pp.121-136, 2021 (ISBN:978-0-367-75068-8).
3. S.Vijayabalaji, A.Ramesh and P.Balaji, " A new distance and similarity

measure on soft parameter sets and their applications to MCDM problems ”, Fuzzy Mathematical Analysis and Advances in Computational Mathematics under the book series, “ Studies in Fuzziness and Soft Computing” Springer Nature, Vol.419, Chapter 10, pp.127-136, 2022 (ISBN:978-981-19-047-7) .

4. S.Vijayabalaji and K.Punniyamoorthy, “ Cubic inverse soft set”, Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences, CRC Press, Taylor and Francis Group, Chapter 6, pp.87-96, 2023 (ISBN:978-1-003-31201-7).

5. S.Vijayabalaji, “ Inverse soft-rough matrices”, Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences, CRC Press, Taylor and Francis Group, Chapter 7, pp.97-106, 2023 (ISBN:978-1-003-31201-7).

6. S.Vijayabalaji, N.Thillaigovindan and K.Punniyamoorthy, “ Neutrosophic n- normed linear space”, Neutrosophic Super Hyper Algebra And New Types of Topologies, Global Knowledge Publishing House, USA, Chapter 5, pp.97-118, 2023 (ISBN:978- 1-59973-772-0).

7. S.Vijayabalaji, K.Sathiyaraj and R.Rajasekaran, “ Operations on cubic inverse soft matrices and their applications, Intelligent Computational Techniques: Mathematics, Health Sciences and Humanities, Chapter 5, pp.97-118, 2023 (ISBN:978- 1-59973-772-0).

8. S.Vijayabalaji, “ Soft-rough expert set”, Soft computing: Engineering Applications , CRC Press, Taylor and Francis Group, Chapter 11, pp.238-249, 2024 (ISBN:978-1-003-46626-0, DOI: 10.1201/9781003466260).

9. S.Vijayabalaji and S.Kalaiselvan, “ Gamma modules and gamma filters”, Soft computing: Engineering Applications , CRC Press, Taylor and Francis Group, Chapter 12, pp.250-258, 2024 (ISBN:978-1-003-46626-0, DOI: 10.1201/9781003466260).

10. S.Vijayabalaji, N.Thillaigovindan, R.Rajasekar and K.Sathiyaraj, “ Neutrosophic soft-rough matrices”, Modern Super HyperSoft Computing Trends in Science and Technology, IGI Global Scientific Publishing , USA, Chapter 8, pp.213-230, 2024 (ISBN:9798369368770).

11. S.Vijayabalaji, P.Balaji and K.Venkatesh, “ Neutrosophic optimization and its uncertainty quantification”, Neutrosophic and Plithogenic Inventory Models for Applied Mathematics, IGI Global Scientific Publishing , USA, Chapter 16, pp.411-432, 2025 (ISBN:9798369332054, DOI: 10.4018/979-8-3693-3204-7).

TRANSLATION OF BOOKS TO REGIONAL LANGUAGE ASSIGNED BY AICTE -2

1. Translated a book in Tamil Language entitled, “ Mathematics-I (Diploma level) ” co-authored with Dr.P.Balaji under AICTE Technical Book writing and Translation Scheme, 2021 through Centre for Faculty Development, Anna University.

2. Translated a book in Tamil Language entitled, “ Mathematics-I (Engineering level for non-CSE students) ” co-authored with Dr.S.Kalaiselvi and Dr.Aruvi under AICTE Technical Book writing and Translation Scheme, 2022 through Centre for Faculty Development, Anna University.

SCOPUS AND GOOGLE SCHOLAR CITATIONS

SCOPUS AUTHOR ID: 16551088200

ORCID ID : <https://orcid.org/0000-0002-9905-7730>

SCOPUS CITATIONS: 190

GOOGLE SCHOLAR CITATIONS : 534

h- INDEX: 11

i10-INDEX: 12

RESEARCH INTEREST SCORE- 235.5

VIDWAN -ID : 659087

VIDWAN PROFILE URL: <https://vidwan.inflibnet.ac.in/profile/659087>.

LIST OF PUBLICATIONS WITH CITATIONS

International / National Journals (all are refereed) - 68

(SCI- 11 papers)

1. AL.Narayanan and S.Vijayabalaji, Fuzzy n- normed linear space, International Journal of Mathematics and Mathematical Sciences, Vol.2005, No.24 (2005), 3963-3977 (UGC LIST) (SCOPUS) (CITED BY-93).
2. S.Vijayabalaji and N.Thillaigovindan, Intuitionistic fuzzy n-inner product space, Bulletin of Pure and Applied Sciences, Vol.25 E , No.1 (2006), 281-294(UGC LIST).
3. AL.Narayanan, S.Vijayabalaji and N.Thillaigovindan, Intuitionistic fuzzy bounded linear operators, Iranian Journal of Fuzzy Systems, Vol.4, No.1 (2007), 89-101 (Impact factor 0.115) (UGC LIST) (SCI) (CITED BY-31).
4. S.Vijayabalaji, N.Thillaigovindan and Young Bae Jun, Intuitionistic fuzzy n- normed linear space, Bulletin of Korean Mathematical Society, Vol.44, No.2, (2007) 291-308 (UGC LIST) (Impact factor 0.141) (SCI) (CITED BY-80).
5. S.Vijayabalaji and N.Thillaigovindan, Fuzzy n- inner product space, Bulletin of Korean Mathematical Society, Vol.43, No.3 (2007), 447-459 (Impact factor 0.141) (UGC LIST) (SCI) (CITED BY-15).
6. S.Vijayabalaji and N.Thillaigovindan, Complete fuzzy n- normed linear space, Journal of Fundamental Sciences, Vol.3, No.1 (2007), 119-126 (CITED BY- 27).
7. S.Vijayabalaji and N.Thillaigovindan, Best approximation sets in n-normed linear space corresponding to intuitionistic fuzzy n- normed linear space, Iranian Journal of Fuzzy Systems, Vol. 5, No.2 (2008), 47-59 (Impact factor 0.333) (UGC LIST) (SCI) (CITED BY-6).
8. S.Vijayabalaji, S.Anitha Shanthi and N.Thillaigovindan, Interval-valued

- fuzzy n - normed linear space, Journal of Fundamental Sciences, Vol.4, No.1 (2008), 287-297 (CITED BY -11).
9. S.Vijayabalaji and N.Thillaigovindan, Generalized Cartesian product of intuitionistic fuzzy n - inner product spaces, The Journal of Fuzzy Mathematics, Vol.17, No.4 (2009) , 917-930 (UGC LIST).
 10. S.Vijayabalaji, S.Anitha Shanthi and N.Thillaigovindan, Some fixed point theorems in intuitionistic fuzzy n - normed linear spaces, Int. J. open problems Comp. Math, Vol.2, No.4 (2009), 505-515 (UGC LIST) (CITED BY -3) .
 - 11.S.Vijayabalaji and N.Thillaigovindan, Fuzzy semi n -metric space, Bulletin of Pure and Applied Sciences, Vol. 28, No.2 (2009), 283-293 (UGC LIST)
 12. N.Thillaigovindan, S.Anita Shanthi and S.Vijayabalaji, Semi group actions in intuitionistic fuzzy 2- metric space, Int. J. open problems Comp. Math, Vol.3, No.1 (2010), 92-100 (UGC LIST) (CITED BY -2).
 13. S.Vijayabalaji, Equivalent fuzzy strong n - inner product space, Int. J. open problems Comp. Math, Vol.4, No.4 (2011), 26-32 (UGC LIST) (CITED BY-4).
 14. S.Vijayabalaji, Fuzzy strong n -inner product space, International Journal of Applied Mathematics, Vol.1, No.2 (2011) 176-185 (CITED BY -8).
 15. S.Vijayabalaji and S.Sivaramakrishnan, Cartesian product and homomorphism of interval-valued fuzzy linear space, Int. J. open problems Comp. Math, Vol.5, No.4 (2012), 93-103 (UGC LIST) (CITED BY -5).
 16. S.Vijayabalaji and S.Sivaramakrishnan, Anti fuzzy M - semi group, American Institute of Physics (AIP) Conference Proceedings, Vo.1482, No.1 (2012), 2012 (UGC LIST) (SCOPUS) (CITED BY -5).
 17. S.Vijayabalaji and S.Sivaramakrishnan, Homomorphism of anti fuzzy M -Semi group, International Journal of Pure and Applied Mathematics, Vol.86, No.6 (2013), 911-917 (UGC LIST) (SCOPUS).
 18. S.Vijayabalaji and A.Ramesh, A new decision making theory in soft matrices, Int.J.of Pure and Applied Mathematics, Vol.86, No.6 (2013), 927-939 (UGC LIST) (SCOPUS) (CITED BY -28).
 19. S.Vijayabalaji and J.Parthiban, Some inequalities in valued inner product space, Int.J.of Pure and Applied Mathematics, Vol.86, No.6 (2013), 983-992 (UGC LIST) (SCOPUS) (CITED BY -2).
 20. S.Vijayabalaji and V.Shakila, 0-simple and soft M - semigroups, Int.J.of Pure and Applied Mathematics, Vol.87, No.6 (2013), 751-756 (UGC LIST) (SCOPUS).
 21. S.Vijayabalaji and G.Shyamsundar, (λ, μ)- Fuzzy strong n - inner product space, Int.J.of Pure and Applied Mathematics, Vol.87, No.6 (2013), 941-949 (UGC LIST) (SCOPUS).
 22. S.Vijayabalaji and P.Balaji, Rough matrix theory and its decision making, Int.J.of Pure and Applied Mathematics, Vol.87, No.6 (2013), 845-853 (UGC LIST) (SCOPUS) (CITED BY -18) .

23. S.Vijayabalaji, Multi Decision Making in Generalized Soft-Rough Matrices, Mathematical Sciences International Research Journal, Vol. 3, Issue 1 (2014), 19- 24 (CITED BY -1).
24. S.Vijayabalaji and J.Parthiban, Euler valued inner product space, Mathematical Sciences International Research Journal, Volume 3, Issue 1(2014), 30-33.
25. S.Vijayabalaji and P.Balaji, MCDM method in cricket by rough matrix theory, Int.J.of Mathematical Analysis, Vol.9, No.18 (2015), 869-875 (CITED BY-5).
26. S.Vijayabalaji and S.Sivaramakrishnan, A cubic set theoretical approach to linear space, Abstract and Applied Analysis, Vol.2015, (2015), 1-8 (CITED BY -27) (UGC LIST) (SCOPUS).
- 27.S.Vijayabalaji, S.Sivaramakrishnan and S.Kalaiselvan, n- normed left gamma-linear space, International Journal of Applied Engineering Research, Vol.10, No.72 (2015), 10-14 (UGC LIST).
28. S.Vijayabalaji and J.Parthiban, Continued fuzzy inner product space, International Journal of Applied Engineering Research, Vol.10, No.72 (2015), 35-39 (UGC LIST).
29. S.Vijayabalaji and P.Balaji, Quadtree to image- A reconstruction approach using Rough matrix, International Journal of Applied Engineering Research, Vol.10, No.72 (2015), 78-82 (UGC LIST)(CITED BY -2).
30. S.Vijayabalaji and A.Ramesh, Multi soft-rough set and its application, International Journal of Applied Engineering Research, Vol.10, No.80 (2015), 224-2228 (UGC LIST).
31. S.Vijayabalaji, P.Balaji and S.Karthikeyan, 3-valued Logic in Quadtree using Rough Matrix, International Journal of Applied Engineering Research, Vol.10, No.80 (2015), 233-236 (UGC LIST)(CITED BY -2).
32. S.Vijayabalaji and G.Shyamsundar, Interval-valued intuitionistic fuzzy transition matrices, International Journal of Modern Science and Technology, Vol.1, No.2 (2016), 47-51 (CITED BY -8).
33. S.Vijayabalaji and G.Shyamsundar, Cubic Transition Matrices, Asian Journal of Research in Social Science and Humanities, Vol.6, No.7 (2016), 412-428 (CITED BY -1).
34. S.Vijayabalaji and J.Parthiban, Valued inner product space in $t(n)$ settings and its application to travelling salesman problem, Asian Journal of Research in Social Science and Humanities, Vol.6, No.7 (2016), 429-441.
35. S.Vijayabalaji, G.Shyamsundar, J.Parthiban and T.Narayanan, Fuzzy operations on transition matrices, Global Journal of Pure and Applied Mathematics, Vol.12, No.3 (Special issue) (2016), 940-946.
36. S.Vijayabalaji and A.Ramesh, Dempster- Shafer fuzzy choquet integral and its application in decision making, Asian Journal of Research in Social Science and Humanities, Vol.6, No.10 (2016), 1015-1030.

37. S.Vijayabalaji and P.Balaji, Construction of QRM using dense factor in Quadtree, Asian Journal of Research in Social Science and Humanities, Vol.6, No.8 (2016), 2573-2581 (CITED BY -2).
38. V.Chinnadurai, S.Barkavi and S.Vijayabalaji, Product operation on fuzzy transition matrix, International Journal of Multidisciplinary Research and Modern Education, Vol.II, Issue II (2016), 281-289.
39. V.Chinnadurai, K.Bharathivelan, S.Vijayabalaji and S.Sivaramakrishnan, Cubic ring, Global Journal of Pure and Applied Mathematics, Vol.12, No.3 (Special issue) (2016), 947-950 (CITED BY -6).
40. V.Chinnadurai, S.Barkavi and S.Vijayabalaji, Determinant and Adjoint of fuzzy soft square matrix, Mathematical Sciences International Research Journal, Volume 5, Issue 1(2016), 93- 99.
41. S.Vijayabalaji and N.Sathiyaseelan, Interval-valued product fuzzy soft matrices its application in decision making, International Journal of Modern Science and Technology, Vol.1, No.5 (2016), 159-163 (CITED BY -9).
42. S.Vijayabalaji and S.Kalaiselvan, n- inner product space left gamma linear space, Asian Journal of Research in Social Science and Humanities, Vol.7, No.2 (2017), 865-877.
43. S.Vijayabalaji and A.Ramesh, Uncertain multiplicative linguistic soft sets and their application to group decision making, Journal of Intelligent and Fuzzy systems, Vol.35 (2018), 3883-3893 (Impact factor 1.802) (UGC LIST) (SCI) (CITED BY-13).
44. S.Vijayabalaji and A.Ramesh, Belief interval-valued soft set, Expert systems with applications (Elsevier) Vol.119 (2019), 262-271 (Impact factor 5.890) (UGC LIST) (SCI) (CITED BY-39).
45. S.Vijayabalaji and N.Sathiyaseelan, Soft-rough interval-valued fuzzy matrix, Malaya Journal of Mathematik, Vol.S, No.1 (2020), 187-191(UGC LIST).
46. S.Sivaramakrishnan, S.Vijayabalaji and R.Rajasekaran, Intuitionistic fuzzy 2- metric groups, Malaya Journal of Mathematik, Vol.S, No.1 (2020), 192-195 (UGC LIST).
47. S.Vijayabalaji and S.Kalaiselvan, A study on fire rings, Malaya Journal of Mathematik, Vol.S, No.1 (2020), 220-226 (UGC LIST).
48. S.Vijayabalaji, Hahn-Banach Theorem in quasi n- normed linear space, Bulletin of Kerela Mathematics Association, Vol.17, No.2 (2020), 95-108.
49. S.Vijayabalaji and P.Balaji , Cogent Transference on Rough Matrix Theory, Bulletin of Kerela Mathematics Association, Vol.17, No.2 (2020), 109-122.
50. S.Vijayabalaji P.Balaji and A.Ramesh, Sigmoid valued fuzzy soft set and its application to haze management, Journal of Intelligent and Fuzzy systems, Vol.39, No.5 (2020), 7177-7187 (Impact factor 1.802) (UGC LIST) (SCI) (CITED BY -4).
51. S.Vijayabalaji and P.Balaji , Best'11 strategy in cricket using MCDM,

rough matrix and assignment model, Journal of Intelligent and Fuzzy systems, Vol.39, No.5 (2020), 7431-7447 (Impact factor 1.802) (UGC LIST) (SCI) (CITED BY -3).

52. S.Kalaiselvan and S.Vijayabalaji ,Soft expert symmetric group and its application in MCDM problem, Symmetry, Vol.14, No.12 (2022), 1-24, 2685 (Impact factor 2.940) (UGC LIST) (SCIE) (CITED BY -11).

53. N.Sathiyaseelan, S.Vijayabalaji and Jose Carlos Alcantud ,Symmetric matrices on inverse soft expert sets and their applications, Symmetry, Vol.15, No.2, 313 (2023), 1-12 (Impact factor 2.940) (UGC LIST) (SCIE) (CITED BY -9).

54. S.Vijayabalaji, S.Kalaiselvan, N.Thillaigovindan and Bijan Davvaz, Modified soft-rough modules and their approximations, Journal of Multiple valued Logic and Soft computing, Vol.41, No.6 (2023), 509-535 (Impact factor 1.3) (UGC LIST- SCOPUS) (SCIE).

55. K.Punniyamoorthy, S.Vijayabalaji, A.V.RaghavendraRao and Belide Shashidhar, Neutrosophic hybrid structures and neutrosophic hybrid matrices, Neutrosophic Sets and Systems, Vol.61 (2023), 395-413 (UGC LIST- SCOPUS).

56. S.Vijayabalaji, N.Thillaigovindan, N.Sathiyaseelan and Said Browmi, Enhancing Failure Mode and Effect Analysis with Neutrosophic Inverse Soft Expert Sets, Neutrosophic Sets and Systems, Vol.60 (2023),508-537 (UGC LIST- SCOPUS).

57. B.Surenderreddy, S.Vijayabalaji, N.Thillaigovindan and P.Balaji, A Vague Rough Set Approach for Failure Mode and Effect Analysis in Medical Accident, International Journal of Analysis and Applications 21 (2023) 134 (SCOPUS).

58. S.Sivaramakrishnan, S.Vijayabalaji and P.Balaji, Neutrosophic interval-valued anti fuzzy linear space, Neutrosophic Sets and Systems, Vol.63 (2024), 271-284 (UGC LIST- SCOPUS).

59. B.Surenderreddy, S.Vijayabalaji, K.Punniyamoorthy and A.V.Raghavendra Rao, Soft n-Normed Linear Spaces: Generalizations and Extensions from Soft Normed Spaces, Communications in Mathematics and Applications, Vol.15, No.1 (2024), 265-277 (WEB OF SCIENCE-ESCI).

60. J.Parthiban and S.Vijayabalaji, Sigma valued inner product space, Indian Journal of Natural Sciences, Vol.15, No.87 (2024), 84926-84931.

61. S.Vijayabalaji, Square soft-rough matrices, International Journal of Open problems in Computer Science and Mathematics, Vol.17, No.2 (2024), 38-48.

62. S.Vijayabalaji, S.Kalaiselvan, Akin Osman Atagn and Huseyin Kamaci, A study on intuitionistic fuzzy soft expert groups, International Journal of Open problems in Computer Science and Mathematics, Vol.17, No.2 (2024), 49-67.

63. B.Surenderreddy, S.Vijayabalaji, N.Thillaigovindan and K.Punniyamoorthy, Emerging Frameworks: 2- Multiplicative Metric and Normed Linear Spaces,

Mathematics and Statistics, Vol.12, No.2 (2024) , 199-203 (SCOPUS).

64. S.Vijayabalaji, Neutrosophic M- semigroup, International Journal of Open problems in Computer Science and Mathematics, Vol.17, No.3 (2024), 58-65.

65. S.Vijayabalaji, S.Kalaiselvan, B.Davvaz and S.Broumi, Soft expert approach in rough fuzzy set and its application in MCDM problem, Uncertainty Discourse and Applications, Vol.1, No.1 (2024), 121-139 (CITED BY -4).

66. S.Vijayabalaji, Picture fuzzy M- semigroup, Bulletin of Kerela Mathematics Association, Vol.18, No.1 (2024), 23-30.

67. S.Sivaramakrishnan, P.Balaji and S.Vijayabalaji, Cubic semi 2- metric space and generalized quasi pseudo- metric on L-M-semigroup, Annals of Communications in Mathematics, Vol.8, No.1 (2025), 57-70.

68. S.Vijayabalaji, Product operations on square soft-rough matrices, International Journal of Open problems in Computer Science and Mathematics, Vol.18, No.2 (2025), 93-102.

Papers presented in the International/ National Conference- 7

(International-3, National- 4)

1. S.Vijayabalaji, Fuzzy n- normed linear space-2, 94th Indian Science Congress held at Annamalai University, Annamalai nagar, Chidambaram, Jan 3- 7, 2007.

2. S.Vijayabalaji and S.Sivaramakrishnan, 2-norm on fuzzy linear space, International Conference on Mathematical modeling and its applications, Annamalai University, Chidambaram, Dec 22-24, 2012.

3. S.Vijayabalaji, Soft-Rough Matrices and its Applications in Decision Making, International Conference on, ' Facets of Uncertainties and Applications' (ICFUA-2013) December 05-07, 2013 jointly organized by Operational Research Society of India, Calcutta Chapter and Department of Applied Mathematics, University of Calcutta.

4. S.Vijayabalaji, n-functional in an n-normed space, 19th Annual Conference of the Ramanujan Mathematical Society, B.R.Ambedkar University, July 21-24, 2004.

5. S.Vijayabalaji, Equivalent intuitionistic fuzzy n-norms, National Conference on Mathematical Modelling, Annamalai University, March 26- 28, 2009.

6. S.Vijayabalaji and A.Ramesh, Group Decision making of soft matrices by using a new weighted method, National Conference on Mathematical Modelling conducted by the Department of Mathematics, Annamalai University from Feb 21 -22, 2014.

7. S.Vijayabalaji, Angles in n - normed linear spaces using cross-positive matrices, National Conference on Mathematics and Applied Science organized by the Department of Applied Science, College of Engineering, Adoor, Kerela from July 17-18, 2024.

Papers published in the International Conference / National Semi-

nar Proceedings- 17

(International-13, National- 4)

1. S.Vijayabalaji and J.Parthiban, A number approach to inequalities in valued inner product space, Proceedings of the International Conference on Recent trends in Discrete Mathematics and its Applications to Science and Engineering (ICODIMA-2013), conducted by Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur, Tamilnadu, India, Pg.1-12 (2013).
2. S.Vijayabalaji and A.Ramesh, Group decision making using ontology based soft- Matrices, Proceedings of the International Conference on Mathematics and its applications (ICMAA-2014) conducted by the Department of Mathematics, Villupuram, Tamilnadu, India, Pg.1-8, Vol.-I, 2014 (ISBN: 978-81-923752-6-7).
3. S.Vijayabalaji and P.Balaji, MCDM method in Cricket using Rough Matrix theory, Proceedings of the International Conference on Mathematics and its applications (ICMAA-2014) conducted by the Department of Mathematics, Villupuram, Tamilnadu, India, Pg. 9-21, Vol.-I, 2014 (ISBN: 978-81-923752-6-7).
4. S.Vijayabalaji and J.Parthiban, Matrix theory in valued inner product space, Proceedings of the International Conference on Mathematics and its applications (ICMAA-2014) conducted by the Department of Mathematics, Villupuram, Tamilnadu, India, Pg. 897-906, Vol.-II, 2014 (ISBN: 978-81-923752-7-4).
5. S.Vijayabalaji ,G.Shyamsundar and A.Ramesh, A new decision making theory in product fuzzy soft matrices, Proceedings of the International Conference on Mathematics and its applications (ICMAA-2014) conducted by the Department of Mathematics, Villupuram, Tamilnadu, India, Pg. 578-592, Vol.-I, 2014 (ISBN: 978-81-923752-6-7).
6. S.Vijayabalaji and A.Ramesh, Application of Grey Analytic Hierarchy Process in Multi soft set decision making problem, , Proceedings of the International Conference on Recent advances in Technology, Engineering and Science conducted by the Department of Mathematics, C.Abdul Hakeem College of Engineering and Technology,Melvisharam, Tamilnadu, India, Pg.1-6, (ISBN: 978-93-5258-740-7), 2016.
7. V.Chinnadurai, K.Bharathivelan, S.Vijayabalaji and S.Sivaramakrishnan, A cubic set theoretical approach to ideals of a ring, Proceedings of the International Conference on Recent advances in Technology, Engineering and Science conducted by the Department of Mathematics, C.Abdul Hakeem College of Engineering and Technology, Melvisharam, Tamilnadu, India, Pg.1-6, (ISBN: 978-93-5258-740-7), 2016.
8. S.Sivaramakrishnan, S.Aruljothi and S.Vijayabalaji, Interval-valued anti fuzzy linear space, 2020 International Conference on System, Computation,

Automation and Networking (ICSCAN), Pg.1-3, 2020 (Doi: 10.1109/IS-CAN49426.2020.9262371), Publisher: IEEE.

9. S.Vijayabalaji, K.Sathiyaraj and N.Syed Mubarak, Picture fuzzy semi n-metric space, Proceedings of the International Conference on Recent trends in Algebra and Graph Theory (IGAGT 2024) conducted by the Department of Mathematics, Nanjil Catholic College of Arts and Science, Nedumcode, Kaliyakkavilai, K.K.District, Tamilnadu, India, Pg.71-76, (ISBN: 978-93-340-4092-0), 2024.

10. S.Vijayabalaji, K.Sathiyaraj and A.Ramesh, 2- Dimensional linguistic fuzzy soft sets , Proceedings of the International Conference on Recent trends in Algebra and Graph Theory (IGAGT 2024) conducted by the Department of Mathematics, Nanjil Catholic College of Arts and Science, Nedumcode, Kaliyakkavilai, K.K.District, Tamilnadu, India, Pg.87-93, (ISBN: 978-93-340-4092-0), 2024.

11. S.Vijayabalaji, R.Rajasekaran and P.Balaji, Generalized inverse soft-rough matrices , Proceedings of the International Conference on Recent trends in Algebra and Graph Theory (IGAGT 2024) conducted by the Department of Mathematics, Nanjil Catholic College of Arts and Science, Nedumcode, Kaliyakkavilai, K.K.District, Tamilnadu, India, Pg.101-107, (ISBN: 978-93-340-4092-0), 2024.

12. S.Vijayabalaji, G.Venkadesh and P.Balaji, Critical path method on generalized Fermatean Neutrosophic set in n^{th} degree , Proceedings of the International Conference on Recent trends in Algebra and Graph Theory (IGAGT 2024) conducted by the Department of Mathematics, Nanjil Catholic College of Arts and Science, Nedumcode, Kaliyakkavilai, K.K.District, Tamilnadu, India, Pg.108-115, (ISBN: 978-93-340-4092-0), 2024.

13. S.Vijayabalaji and K.Sathiyaraj, Neutrosophic semi n - metric space , Proceedings of the International Conference (ICGA-2024) , Graphs from Algebraic structures organized by the PG and Research Department of Mathematics, St.Xavier's College (Autonomous), Palayamkottai, Tamilnadu, India, Pg.55-60, (ISBN: 978-81-980770-7-3), 2024.

14. N. Thillaigovindan, S.Vijayabalaji and S.Anita Shanthi, “ Angles in n-normed linear space”, Proceedings of National Seminar on Mathematical Methods for Research, A.V.C College (Autonomous) Mayiladuthurai, Tamilnadu, Pg. 61- 69 (2008).

15. S.Vijayabalaji and S.Sivaramakrishnan, “Interval-valued fuzzy field and interval-valued fuzzy linear space”, Proceedings of the UGC sponsored National Seminar on “ Recent trend in Fuzzy set theory, Rough set theory and soft set theory ”, West Bengal, ISBN 978-81-922305-5-9, Pg.82-88 (2011).

16. S.Vijayabalaji and G.Shyamsundar, "Cross-positive fuzzy matrices on 2-inner product spaces," Proceedings of the UGC sponsored National Seminar on "Recent trend in Fuzzy set theory, Rough set theory and soft set theory", West Bengal, ISBN 978-81-922305-5-9, Pg.77-81(2011).
17. S.Sivaramakrishnan, S.Vijayabalaji and K.Sathiyaraj, "Neutrosophic anti-fuzzy submodule of a module", Proceedings of the National Seminar on Recent Trends in Pure and Applied Mathematics (RTPAM' 23), ISBN 978-81-965805-3-7, Pg.20-23 (2023).

Invited talk in the International / National Conference/ National Seminar - 16

- (International Conference – 3, National Seminar-6, National Conference- 7)
1. Delivered an invited talk at the International Conference on Fuzzy Mathematics and its applications sponsored by Pune University and organized by P.G. Dept of Mathematics, New Arts, Commerce and Science college, Ahmednagar, conducted during Jan 27 to 29, 2007, Pune.
 2. Delivered an invited talk entitled," The theory of fuzzy n-normed linear space" at the International Conference on Artificial Neural Networks and e-Mathematical learning held at Loyola College, Chennai during July 23-25, 2012.
 3. Delivered an invited talk entitled," Extension in Normed Linear Space and Its Application to Uncertainty Theory" at the International Conference on Computational Fluid Flow and Heat Transfer conducted by the Department of Mathematics, Osmania University, Hyderabad during March 28-29, 2018 and chaired a session.
 4. Delivered an invited talk entitled, " Fuzzy n-normed linear space" at the UGC sponsored National Seminar on , "Recent trend in Fuzzy set theory , Rough set theory and soft set theory" during sep 23-24, 2011 organized by Department of Mathematics, Ulberia College, West Bengal.
 5. Delivered an invited talk entitled, " Fuzzy sets and its applications " in the Intercollegiate seminar MATH FETE 2012 organized by Department of Mathematics, Krishnasamy College of Science, Arts and Management for Women, Cuddalore on 01.09.2012.
 6. Delived an invited talk entitled, "Recent tools to deal with uncertainty and their applications" in Mathematics Association organized by Periyar Arts College, Cuddalore on 06-04-2018.
 7. Delivered a technical seminar on , " Application of Mathematics in Engineering" organized by Department of Science and Humanities and Association of Potentially Motivated and Engineering Cadres at Idhaya Engineering College for Women, Chinnasalam on 21.02.14.
 8. Delivered an invited talk entitled," Inner product spaces and normed spaces" on the National Webnar conducted by the Department of Mathe-

matics, Government Degree College, Eluru, Andra Pradesh on the occasion of National Mathematics Day celebration on 22-12-2023.

9. Delivered an invited talk entitled, “ Soft sets, soft matrices and its decision making”, at the National Conference on , “Mathematical Sciences and applications” during March 15, 2013 and chaired a session organized by Department of Mathematics, Karunya University.

10. Delivered an invited talk entitled, “ Soft sets, Rough sets and its applications in decision making” at the Interdisciplinary National Conference on Soft Computing and its applications conducted by the Department of Mathematics and ECE, University College of Engineering Tindivanam on 29-30 April, 2015.

11. Delivered an invited talk entitled, “Soft Rough theoretical approach to matrices and their applications”, at the National Conference on , “ Fuzzy theory and applications (NCFTA15)” during July 24-25, 2015 organized by Mathematics division of Science and Humanities Department at KCG College of Technology, Chennai.

12. Delivered an invited talk entitled, “ Soft , Rough sets and their applications”, at the National Conference on ,” Emerging trends in Mathematics” on 28 th July, 2017 conducted by the PG and Research Department of Mathematics, A.V.V. M. Sri Pushpam College, Poondi.

13. Delivered an invited talk entitled, “A cubic set theoretical approach to soft-rough matrices and their applications”, at the National Conference on applications of Number Theory, Graph theory, Fuzzy logic and Combinatorics in Engineering and Technology, conducted by the Department of Mathematics at Sriram Engineering College, Chennai on March 1, 2019.

14. Delivered an invited talk entitled, “Applications of Mathematics”, in a Guest lecture Programme for first year B.E/B.Tech students conducted by the Department of Mathematics at JJ College of Engineering and Technology, Trichy on 09.04.2025.

15. Delivered an invited talk entitled, “Fusion of fuzzy sets, soft sets and rough sets”, at the National Conference on , “ Fuzzy Advanced Mathematics and its Applications (FAMA 25)” on July 7, 2025 organized by the Department of Mathematics at M.A.M College of Engineering and Technology, Trichy.

16. Delivered an invited talk entitled, “ The Role of expert sets in hybrid models of Soft and Rough sets” through online mode at the National Conference on , “ Mathematics and its Applications ” on 04.09.2025 organized by the Department of Mathematics, Mahatma Gandhi University- Nalgonda, Telangana.

Invited talk in the Faculty Development Training Programme : 8

1. FDP on Discrete Mathematics conducted by Mailam Engineering College,

Tamilnadu, India (31-5-2006). Title: Discrete Mathematics.

2. FDP on Discrete Mathematics conducted by Mailam Engineering College, Tamilnadu, India (25-7-2007). Title: Formal Language, Automata Theory.

3. FDP on Probability and Queueing Theory conducted by the Department of Mathematics, A.V.C College of Engineering, Mayiladuthurai, Tamilnadu, India. (6-12-2014)

Title: Discrete parameter Markov chain Chapman Kolmogorov equation and limiting distributions.

4. FDP on Discrete Mathematics conducted by the Department of Mathematics, University College of Engineering Villupuram, Tamilnadu, India (21-05-2015). Title: Permutations and combinations.

5. FDP on Probability and Queueing Theory conducted by Department of Mathematics IFET College of Engineering and Technology, Villupuram, (29-11- 2015). Title: Random process and queueing theory

6. FDP on Transforms and PDE (MA6351) conducted by Department of Mathematics, at University College of Engineering, Ariyalur (31.05.2017). Title: Solving finite difference equations and its applications

7. FDP on Electrical Machines-II conducted by Department of EEE at University College of Engineering, Panruti (30.11.2018). Title: Fuzzy logic and its applications to Electrical Machines

8. International FDP on Research Perspectives in Mathematics and its Applications conducted by Department of Mathematics at Sathiyabama Institute of Science and Technology, Chennai through on- line mode (11.07.2022). Title: Generalization of n - normed linear space, soft-rough matrices to cubic setting and their applications.

Faculty Development Training Programme participated till date : 18

1. Participated in the Anna University sponsored one week Faculty Development Training Programme on ‘ Probability and Queueing Theory’ at University College of Engineering Villupuram conducted by department of Mathematics, Villupuram from 30.11.2012 to 6.12.2012.

2. Participated in the AICTE Sponsored two weeks Faculty Development Programme on ‘ Advances in Software Architecture, Engineering Modelling Tools and Programming Practices’ conducted by department of Computer Science and Engineering, at Pondicherry Engineering College, Puducherry, from 27.5.2013 to 07.06.2013.

3. Participated in the AICTE Sponsored two weeks Faculty Development Programme on ,‘ Developing Pedagogical Skills for Teachers through Active Learning Techniques’ conducted by department of Management Studies, at M.A.M College of Engineering, from 10.06.2013 to 22.06. 2013.

4. Participated in the, ‘ Certificate course on Effective Patent Drafting-2016’ conducted by CIPR, Anna University Chennai and held at Anna University

Regional Campus Coimbatore from 23.11.2016 to 27.11.2016.

5. Participated in the Short-term training Programme on, ‘Recent trends in Soft-Computing’ held at Pondicherry Engineering College from 05.12.2016 to 09.12.2016 .

6. Participated in the QIP Short-term course on, ‘Fuzzy Logic with Applications’ conducted by the department of Mathematics, IIT (BHU), Varanasi from 20.03.2017 to 25.03.2017 .

7. Participated in the AICTE Sponsored two weeks Faculty Development Programme on ‘Mathematical Sciences Research Challenges in Engineering Applications’ conducted by department of Mathematics, at Sethu Institute of Technology, from 20.11. 2017 to 02.12. 2017.

8. Participated in the Anna University Sponsored six days Faculty Development Programme on, “Linear Algebra and Partial Differential Equations” conducted by department of Mathematics at University College of Engineering Ramanathapuram from 21.06.2019 to 26.06.2019 .

9. Participated in the AICTE sponsored QIP Short term course on, ‘Advances in Graph Theory with Applications to Network Sciences’ held at department of Mathematics, IIT (BHU), Varanasi from 06-08-2018 to 11-08-2018.

10. Participated in the SWAYAM on line course on, ‘Transforming Instruction through Blended Classroom’ from 15.10 2018 to 9.12. 2018 (eight weeks course).

11. Participated in the two weeks on-line Faculty development training programme on, ‘Managing online courses and co-creating MOOCs-2.0’ conducted by Teaching Learning Centre, Ramanujan College , Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on teachers and Education from 18-05-2020 to 03-06-2020.

12. Participated in the two weeks on-line Faculty development training programme on, ‘Advanced concepts for developing MOOCs’ conducted by Teaching Learning Centre, Ramanujan College , Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on teachers and Education from 02-07-2020 to 17-07-2020.

13. Participated in the three weeks on-line industrial training programme on, ‘Basic Science and Communication’ conducted by Rajiv Gandhi Memorial Training Centre, BSNL, Tamilnadu from 08-06-2020 to 26-06-2020.

14. Participated in the on-line STTP on, ‘Matlab- Statistics and Data Sciences’ conducted by Department of Applied Science, Sagar Institute of Research and Technology, Bhopal and sponsored by AICTE from 27-07-2020 to 1-08-2020.

15. Participated in the NPTEL-AICTE Faculty Development Training Programme on, ‘Transform Calculus and its Applications in Differential Equations’ from 27.01 2020 to 17.04. 2020 (twelve weeks course).

16. Participated in the AICTE Training and Learning (ATAL) Academy

on-line Faculty Development Training Programme on, ‘ Blended and Flipped approach of Teaching and Learning’ conducted by NITTR, Chennai from 24-08-2020 to 28-08-2020.

17. Participated in AICTE on- line UHV Faculty Development Training Programme on, ‘ Inculcating Universal Human values in Technical Education’ from 14-02- 2022 to 18-02-2022.

18. Participated in the online National Workshop on, ‘ Blockchain Technology and Its Applications’ from conducted by Department of Computer Applications, NIT Trichy from 21-08-2023 to 25-08-2023.

CONFERENCE AND SEMINAR PARTICIPATED-5

1. Participated in the instructional Seminar on, ‘ Real life applications of Mathematics’ from 26-10-2002 to 27-10-2002 at Mathematics Section, Faculty of Engineering and Technology, Annamalai University, Chidambaram.

2. Participated in the ,’18th Annual Conference of the Ramanujan Mathematical Society’ from 17-07-2003 to 20-07-2003 held at the Department of Mathematics, Annamalai University, Chidambaram.

3. Participated in the ,’ National Seminar on Graph Theory and fuzzy Mathematics’ from 28-08-2003 to 30-08-2003 held at the Department of Mathematics, Catholicate College Pathanamthitta, Kerala.

4. Participated in the ,’ National Seminar on Stochastic Process and its Applications’ from 15-03-2007 to 16-03-2007 held at the Department of Mathematics, Annamalai University, Chidambaram.

5. Participated in the International Seminar through online entitled ,’ Mathematics and Data Analytics’ on 13-04-2024 held at the Department of Statistics and Applied Mathematics, Central University of Tamil Nadu.

ADDITIONAL RESPONSIBILITIES HELD:

1. Served as Deputy warden for boys hostel at University College of Engineering Panruti (erstwhile Anna University Tiruchirappalli, Panruti Campus) from 15-9-2008 to 31-12-2009.

2. Served as Head-in-charge in the Department of Mathematics at University College of Engineering Panruti (erstwhile Anna University Tiruchirappalli, Panruti Campus) from 15-9-2008 to 30-09-2009.

3. Served as Head-in-Charge, Department of Mathematics at University College of Engineering Panruti from 30.10.2015 to 02.01.2019.

4. Served as student Grievance cell co-ordinator at University College of Engineering Panruti from 05.10.2018 to 17.11.2020.

5. Served as I year co-ordinator at University College of Engineering Panruti from 04.07.2019 to 09.03.2022.

6. Served as Tamil Mandram co-ordinator at University College of Engineering Panruti from 15.03.2013 to 09.03.2022.

7. Serving as member of Grievance redressal / Internal Complaints Committee

cell co-ordinator at University College of Engineering Panruti from 14.11.2019 to till date.

8. Serving as Innovation Cell co-ordinator at University College of Engineering Panruti from 09.03.2022 to till date.

Faculty Development Training Programme conducted: 2

1. Served as one of the co-ordinator on the FDP on Prob.and random processes, during Dec 12 to 18, 2012 at University College of Engineering Panruti sponsored by Centre for Faculty Development, Anna University.

2. Served as one of the co-ordinator on the FDP on Mathematics-I, during June 24 to 30, 2015 at University College of Engineering Panruti sponsored by Centre for Faculty Development, Anna University.

CO-ORDINATOR FOR THE INDUCTION PROGRAMME: 3

1. Served as a co-ordinator for the conduction of induction programme for B.E-I year students in off-line mode from 05.08.2019 to 11.08.2019.

2. Served as a co-ordinator for the conduction of induction programme for B.E-I year students in on-line mode from 09.11.2020 to 21.11.2020.

3. Served as a co-ordinator for the conduction of induction programme for B.E-I year students both in on-line and off-line mode from 11.11.2021 to 21.11.2021.

PROJECTS:

1. Sanctioned Fund for Innovative Project by Young faculty members under Research Support Scheme by CTDT, Anna University Chennai with an amount of Rs. 50,000 for one year (2013-2014) and completed. The title of the project is, “ Soft-Rough Matrices and its applications in Decision Making”.

PATENT:

1. S.Vijayabalaji and K.Punniyamoorthy published the National Patent entitled, “Automata fuzzy n- normed linear spaces and their applications”, 2022 (The Patent office Journal number: 20/2022 with publication dated 20/5/2022, Patent application number: 202241027279 A).

Ph.D Thesis evaluated/ external examiner: 4

1. Evaluated a Ph.D thesis entitled, ‘ Intuitionistic L- fuzzy ideals of BF/BG Algebras’ submitted by Mr.P.Muralikrishna at Madurai Kamaraj University and acted as external examiner during 2013.

2. Evaluated and acted as one of the external examiner for the Ph.D Viva-voce examination in respect of the research scholar Mr.S.Velmurugan held at the Department of Mathematics, Sri Angalamman College of Engg., Trichy affiliated to Anna University during 2014. The title of the thesis is, ‘ Contributions to the theory of χ^2 - sequence spaces defined by Musielak and climate changes of Fuzzy applications’.

3. Evaluated a thesis entitled, ‘ On Some Aspects of Spectral Theory in Riemannian Geometry’ submitted by Ms. Farah Diyab in the Department of Mathematics at Osmania University during 2023.

4. Evaluated a thesis entitled, ‘ Some Results on N-Cubic Pythagorean and Picture Fuzzy Linear Spaces ’ submitted by Ms. Gundeti Soujanya in the Department of Mathematics at Osmania University during 2025.

Membership in Professional bodies:

1. Life member of Orissa Mathematical Society (2018 LMOMS 765).
2. Life member of Kerela Mathematical Association from 07-06-2018.
3. Life member of Indian Science Congress from 15-07-2023 (No. L43751).

DECLARATION: I declare that the above statements are true to the best of my knowledge and belief.

S.VIJAYABALAJI