

CURRICULUM VITAE

Dr. Poonam Kumar Sharma

D.O.B : 11 - 12 - 1965

Residential Address: H.No – 19, Arjun Nagar,
Ladowali Road , Jalandhar City, Punjab , India

Father's Name : Shri Chaman Lal Sharma

Academic Record

Ph.D. (Jamia Millia Islamia University, New Delhi)
Thesis Supervisor: Dr. Mohammad Yamin. Thesis synopsis "Some Relative Relation Modules Of Finite Groups", 1993.

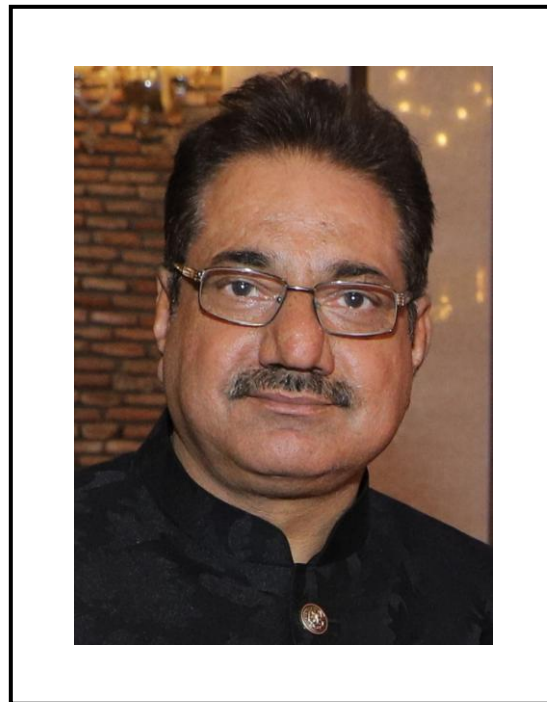
M.Sc. (Mathematics, 1988) (D.A.V.College,
Jalandhar, under Guru Nanak Dev University) (First Division)

B.Sc. (Non-Medical, 1986) (D.A.V.College, Jalandhar, under Guru Nanak Dev University) (First Division)

Area of interest Modern Algebra, General Topology, Discrete Mathematics, Fuzzy topology, Fuzzy Algebra, Intuitionistic fuzzy Mathematics.

Experience

- Presently working as Associate Professor at Post Graduate Dept. of Mathematics, D.A.V. College ,Jalandhar Under Guru Nanak Dev University since 1994.
- Worked as Lecturer in Mathematics in D.A.V. College, Chandigarh under Punjab University from 1993-1994



Extra Responsibilities

- Member of **Board of Studies in Mathematics** (UG) of Guru Nanak Dev University, Amritsar for the period 01-07-2020 to 30-06-2022.
- As a **Dean Alumni Association** of D.A.V. College, Jalandhar Organizes three Alumni meets one in December 14, 2013 second in December 5, 2015 and third in 8th December, 2018.
- Completed **Major Research Project** titled” A Study of intuitionistic fuzzy G-modules” sponsored by **University Grant Commission** New Delhi. February, 2017.
- **Supervised Mr. Amit Seghal for Ph.D**, on the topic “Study of numbers of different types of subgroups in an Abelian group and generalized Dihedral group”, from NIILM University, Kaithal, Haryana, Degree awarded on 26th November, 2017.
- **Supervised Ms Vandana Bansal for Ph.D**, on the topic “ A study on some aspects of intuitionistic fuzzy Graph Structures, from IKG PTU Jalandhar, final Phd viva voce completed on 2nd December, 2019 and Notification for Ph.D award made on 19th December, 2019.
- **Supervised Ms Gagandeep Kaur for Ph.D**, on the topic “ A study on intuitionistic fuzzy aspects of Rings, Modules and Associated Algebraic structures, from IKG PTU Jalandhar, final Phd viva voce completed on 11th June, 2020 and Notification for Ph.D award made on 23rd July, 2020.
- Had been a **Convener of the Teacher’s Enrichment Workshop**(TEW) 2014 on Rings and Modules sponsored by National Centre for Mathematics(NCM) (A joint center of IIT Bombay and TIFR, Mumbai) from 15-21st April, 2014 at D.A.V. College, Jalandhar
- Had been **Organizing Secretary of U.G.C. Sponsored National Conference** “Recent Trends in Discrete and Fuzzy Mathematics” held at D.A.V. College , from 2th Feb. to 4th Feb., 2013.
- Had been **Organizing Secretary of U.G.C. Sponsored National Conference** “Emerging Trends in Mathematics and Its Applications” held at D.A.V. College , from 4th Feb. to 6th Feb., 2012.

- Had been **Organizing Secretary of U.G.C. Sponsored National Conference** “Recent Trends in Algebra and Analysis” held at D.A.V. College , from 4th Feb. to 6th Feb., 2011.
- Had been an **expert in Mathematics and Science fair** organized by Punjab Govt.

Abroad Visit :

- 1) **Visited Bulgaria** on September, 2016 to present research paper in the international conference at Sofia, Bulgaria from 2-3, September 2016 **under UGC travel grant scheme.**
- 2) **Visited U.S.A.** on July, 2013 to present research paper in the international conference at Las Vegas from 22-25, July 2013 **under UGC travel grant scheme.**

Books Publications

S.NO	Title of the Book	ISBN/ ISSN NO	Name of the Publication
1	Algebra: Some relative relation of finite groups,	978-613-9-84851-5.	Lambert Academic Publication, Germany
2	Topology-I M.Sc-(Maths) Sem-III	93-81701-47-4	Sharma Publications, Jalandhar
3	Topology-II M.Sc-(Maths) Sem-IV	93-81701-82-2	Sharma Publications, Jalandhar
4	Discrete Mathematics-I M.Sc-(Maths) Sem-III	93-81701063-6	Sharma Publications, Jalandhar
5	Discrete Mathematics-II M.Sc-(Maths) Sem-IV	93-82704-06-x	Sharma Publications, Jalandhar
6	Real Analysis-I M.Sc-(Maths) Sem-I	938126179-2	Sharma Publications, Jalandhar
7	Real Analysis-II M.Sc-(Maths) Sem-II	938170112-1	Sharma Publications, Jalandhar
8	Algebra-I M.Sc-(Maths) Sem-I	938126176-8	Sharma Publications, Jalandhar

9	Algebra-II M.Sc-(Maths) Sem-II	938170110-5	Sharma Publications, Jalandhar
10	Integral Calculus B.A/B.Sc-II	938126139-3	Sharma Publications, Jalandhar

11. My research paper (with Mohammad Yamin) titled “Structure of relative relation modules of finite groups”, **Published by Springer** in March 2014, pp. 256-274, ISBN:978-981-4585-32-3.

12. My research paper titled “On Fuzzy Topological spaces involving group structures”, published in a book titled” Algebra Geometry, Analysis and their Applications” by **Narosa Publishing House**, New Delhi, 2016, pp. 45-57, ISBN: 978-81-8487-561-4.

Research Paper Publications

1. P.K. Sharma “ (α, β) -Cut of Intuitionistic fuzzy groups” International Mathematics Forum , Vol. 6, 2011, no. 53, 2605-2614 with Impact Factor 0.323
2. P.K. Sharma “Homomorphism of Intuitionistic fuzzy groups ” International Mathematics Forum , Vol. 6, 2011, no. 64, 3169-3178 with Impact Factor 0.323
3. P.K. Sharma “ Intuitionistic fuzzy groups”, International Journal of Data Ware housing & Mining, Vol. 1 , Issue 1 , (2011) , 86-94 with Impact Factor 0.2
4. P.K. Sharma “ Translates of Intuitionistic fuzzy subgroups” , International Journal of Pure and Applied Mathematics , Vol. 72, no.4 , 2011, 555-564 with Impact Factor 2.48
5. P.K. Sharma “On the Intuitionistic fuzzy order of an element in a group”, Research Cell: International Journal of Engineering Science” Special Issue , Sept. 2011 , Vol. 4 , 355-362 with Impact Factor 0.29
6. P.K. Sharma “ On Intuitionistic Magnified Translation in Groups”, International Journal of Mathematical Sciences and Applications, Vol. 2, no.1, 2012, 139-144
7. P.K. Sharma and Vandana Bansal “ Anti Homomorphism of Intuitionistic Magnified Translation in Groups”, International Journal of Mathematical Sciences and Applications, Vol. 2, no.1 , 2012, 161-166
8. P.K. Sharma “ On Intuitionistic Magnified Translation in Rings” International Journal of Algebra, Vol.5 , 2011 , no. 30 , 1451-1458 with Impact Factor 0.323

9. P.K. Sharma “ (α, β) -Cut of Intuitionistic fuzzy modules”, International Journal of Mathematical Sciences and Applications, Vol. 1 , no.3 , Sept. 2011, 1489-1492
10. P.K. Sharma “ Translates of Intuitionistic fuzzy subrings”, International Review of Fuzzy Mathematics” Vol. 6 , No. 2 , 2011, pp. 77-84.
11. P.K. Sharma “ Intuitionistic fuzzy ideal in near rings”, International Mathematics Forum, Vol. 7 , 2012 , no. 16, 769-776 with Impact Factor 0.323
12. P.K. Sharma and M. Yamin “Relative relation modules of $SL(2, p)$ and $PSL(2, p)$ groups” Journal of Indian Mathematics Society (JIMS), Vol., 80 , no. 3-4 , (2013), 341-348
13. P.K. Sharma “Common fixed point for two pair of compatible mapping” , Proceedings of International Conference on Mathematics and soft computing (Application in Engineering),held at N.C. College of Engg. Israra , Panipat 4-5th Dec. , 2010 , page 107-113.
14. P.K. Sharma “ On the direct product of Intuitionistic fuzzy groups”, International Mathematical Forum , Vol. 7 , 2012 , no. 11, 523-530 with Impact Factor 0.323
15. P.K. Sharma “ On intuitionistic fuzzy abelian subgroups” Advances of Fuzzy Sets and Systems , Vol. 12(1), 2012 , pp. 1-16 with Impact Factor 0.703
16. P.K. Sharma “ On Translates of intuitionistic fuzzy abelian subgroups” , Advances in Fuzzy Sets and Systems, Volume 13(1), 2012 , pp. 1-12 with Impact Factor 0.703
17. P.K.Sharma “ t - Intuitionistic fuzzy Quotient modules” International Journal of Fuzzy Mathematics & System (IJFMS) Vol., 2, no. 1, 2012, 37-45
18. P.K.Sharma and Ashu Bahl “ Translates of Intuitionistic fuzzy submodules” International Journal of Mathematics Sciences, Vol. 11, no. 3-4 , 2012, pp. 277-287
19. P.K.Sharma “ Intuitionistic fuzzy module over Intuitionistic fuzzy ring”, International Journal of Fuzzy Mathematics & System (IJFMS), Vol. 2 , no., 2, 2012, 133-140
20. P.K. Sharma “ Anti Fuzzy Submodule of a Module”, Advances in Fuzzy Sets and Systems , Vol. 12(1), 2012 , pp. 49-57 with Impact Factor 0.703
21. P.K.Sharma “ t -Intuitionitic Fuzzy Quotient Subgroups”, Advances in Fuzzy Mathematics, Vol. 7 , no. 1 , 2012 , pp. 1-9
22. P.K.Sharma “ t - Intuitionistic Fuzzy Quotient Ring”, International Journal of Fuzzy Mathematics & Systems, Vol. 2, No. 3 , (2012), pp. 207-216
23. P.K.Sharma and Vandana Bansal, “ On Intuitionistic anti-fuzzy ideals in rings” International Journal of Mathematics Sciences, Vol. 11, no. 3-4 , 2012, pp. 237-243

24. P.K.Sharma, " On Intuitionistic Anti-fuzzy submodule of a module", International Journal of Fuzzy Mathematics & System (IJFMS) Vol. 2, No 2 (2012), 127-132
25. P.K.Sharma, " Intuitionistic fuzzy submodules with thresholds (α, β) of modules", International Journal of Mathematics Sciences and Engineering Applications, Vol. 6, No. III, May , 2012 , 21-30 with Impact Factor 0.3025
26. P.K.Sharma, " Intuitionistic Fuzzy Relation on Modules", International Review of Fuzzy Mathematics , Vol. 7 , no.1 , (2012) , 13-20.
27. P.K.Sharma, " t - intuitionistic fuzzy subgroups", International Journal of Fuzzy Mathematics and Systems (IJFMS) , Vol. 2 , no. 3 , 2012 , pp. 233-243
28. P.K.Sharma, " t - intuitionistic fuzzy subrings", International Journal of Mathematics Sciences , Vol. 11 , no. 3-4 , 2012, pp. 265-275
29. P.K.Sharma, " Lattices of Anti fuzzy Submodules", International Journal of Fuzzy Mathematics and Systems , Vol. 2, No. 3 (2012), pp. 345-350
30. P.K.Sharma, " Q-Intuitionistic L-Fuzzy Submodules", International Journal of Fuzzy Sets and Systems , Vol. 2 , No. 3, 2012 , pp. 245-252
31. P.K.Sharma, " (α, β) -Cut of Intuitionistic fuzzy modules- II", International Journal of Mathematical Sciences and Applications, Vol. 3 , No. 1 , 2013, pp. 11-17
32. P.K.Sharma, " Translates of Anti fuzzy subgroups ", International Journal of Applied Mathematics and Applications, (July-Dec 2012), Vol, 4 , No. 2 , 175-182
33. P.K.Sharma, " On Intuitionistic Anti-Fuzzy Ideal and Quotient Ring", International Journal of Applied Mathematics and Physics, (July-Dec 2012) , pp. 109-119
34. P.K.Sharma, "Translates of Anti Fuzzy Subrings And Ideals", International Journal of Applied Mathematics and Physics" (July-Dec 2012), pp. 125-130
35. P.K.Sharma, " Translates of (Anti) fuzzy submodules , International Journal of Engineering Research and Development, Volume 5, Issue 2 (December 2012), PP. 27-31
36. P.K.Sharma, "On Intuitionistic Anti-Fuzzy Subgroup of a group", International Journal of Mathematics and Applied Statistics, Vol., 3, No. 2 (July-Dec 2012),147-153
37. P.K.Sharma, " α - Fuzzy subgroups, International Journal of Fuzzy Mathematics and Systems , Volume 3, Number 1 (2013), pp. 47-59
38. P.K.Sharma, " α - Anti Fuzzy Subgroups", International Review of Fuzzy Mathematics", Vol., 7, No. 2 , 2012 , pp. 47-58
39. P.K.Sharma, " (α, β) - Fuzzy Subgroups", Fuzzy Sets Rough Sets and Multivalued Operations and Applications" , Vol. 4 , No. 1, 2012, pp. 59-71
40. P.K.Sharma, " (α, β) - Anti Fuzzy Subgroups, International Journal of Fuzzy Mathematics and Systems, Volume 3, Number 1 (2013), pp. 61-74

41. P.K.Sharma, "Relationship between α -(Anti) Fuzzy Subgroups and (α, β) -(Anti) Fuzzy Subgroups, International Review of Pure and Applied Mathematics" (July-Dec 2012), Vol. 8, No. 2, pp. 133–140.
42. P.K. Sharma and Amit Sehgal, " On Number of fuzzy subgroups of a finite cyclic group", Proceedings of the National conference on Advances in Mathematics & its Applications, organized by Department of Mathematics National Institute of Technology Hamirpur from 25th – 27th June , 2013 ,page 293-298, ISBN: 978-93-83083-22-0
43. P.K. Sharma and Aradhna Duggal, " Intuitionistic fuzzy Bi-ideal of a ring", Proceeding of the International conference of Scientific computing 2013, held at Las Vegas, Nevada USA , from 22th to 25th July, 2013, page 158-164, ISBN: 1-60132-238-0
44. P. K. Sharma, " t-Fuzzy Subring and Ideal", Indian Journal of Computational and Applied Mathematics (IJCAM), Vol. 1 , No. 1, (2013), pp. 93-104
45. P.K. Sharma and Aradhna Duggal, " Intuitionistic (T, S)-Fuzzy bi-ideal of a ring", Proceeding of the International conference On Information and Mathematical Sciences held at Baba Farid College of Engineering & Technology, Bhatinda from October 24-26, 2013, **published by Elsevier Science and Technology**, pp. 327-331, ISBN: 978-93-5107-162-4
46. Mohammad Yamin and P.K. Sharma, " Structure of relative relation modules of finite groups", International Conference on Mathematical Sciences and Statistics 2013, Published by Springer in March 2014, pp. 256-274, ISBN:978-981-4585-32-3
47. P.K.Sharma, Meenu Sharma, "A Study On Translation Of Intuitionistic Fuzzy Subgroups" presented in the National Conference held at A.S. College for women, Khanna from 22-25 October, 2013
48. P.K.Sharma, Aradhna Duggal, " A study on Translation of Intuitionistic (T,S)-Fuzzy Bi-Ideal of a Ring", International Journal of Computing, Vol. 4, Issue 3, 2014, pp. 623- 627, with Impact Factor 2.456

49. Mohammad Yamin and P.K. Sharma, “Relative Relation Modules of Finite Elementary Abelian p-Groups”, Bulletin of the Korean Mathematical Society, Vol. 51, 2014, No. 4, 1205—1210 with Impact Factor 0.45 **(ISI PUBLICATION)**
50. Mohammand Yamin & P.K. Sharma, Structure of Relative Relation Modules of Finite Groups, A. Kilicman et al. (eds.), International Conference on Mathematical 265 Sciences and Statistics 2013, DOI 10.1007/978-981-4585-33-0_27, Springer Science + Business Media Singapore 2014 **(ISI PUBLICATION)**, 265-274
51. P.K. Sharma and Vandana Bansal, “Level cut of fuzzy graph” Proceeding of the International Multi Track Conference on Sciences, Engineering and Technical Innovations (IMTC 14) Sponsored by DST, Ministry of Sci. and Technology and PTU, held at C.T. Institute of Engineering Management and Technology from , June 3-4 , 2014, Vol. 2 , pp. 453-459, ISBN: 978-81-92077-1-0
52. P.K.Sharma, “ Lattices of Intuitionistic fuzzy modules”, Journal of Advances in Mathematics, Vol. 9 , No. 1, 2014, pp. 1828-1833
53. P.K. Sharma, “ Modal operator $F_{\alpha, \beta}$ in intuitionistic fuzzy groups” , Annals of Pure and Applied Mathematics, Vol. 7, No. 1, 2014 , pp. 19-28
54. P.K.Sharma, “ On Fuzzy Topological spaces involving group structures”, presented in the International conference on Algebra, Geometry and Analysis and their Applications held at Jamia Millia Islamia, New Delhi from Nov., 27-29, 2016.
55. P.K.Sharma, “ Group intuitionistic fuzzy topological spaces”, Journal of Natural Sciences Research, Vol. 5, No. 3, 2015, pp. 1-10.
56. Amit Sehgal , Sarita Sehgal and P.K. Sharma, “ The number of subgroups of finite abelian p-group of rank two”, Journal for Algebra and Number Theory Academia, Vol. 5 , No. 1, (2015), pp. 23-31.
57. P.K.Sharma and Tarandeep Kaur, “Intuitionistic fuzzy G-modules”, Notes on Intuitionistic Fuzzy Sets, Vol. 21, Number 1, 2015, pp. 6-23.
58. P.K.Sharma, “Intuitionistic fuzzy representation of intuitionistic fuzzy groups”, Asian Journal of Fuzzy and Applied Mathematics, Vol. 3 , No. 3 , 2015, pp. 81-94
59. Meenu Sharma and P.K. Sharma, “ t-Anti Fuzzy Subrings and Ideals”, Indian Journal of Mathematics Research, vol. 3, No. 1, (2015), pp. 47-57

60. P.K.Sharma, "On Fuzzy Topological Spaces Involving Boolean Algebraic Structures", Journal of Mathematics and Computer Science, Vol. 15 (2015), No. 4, 252-260 <http://dx.doi.org/10.22436/jmcs.015.04.01>
61. Amit Sehgal , Sarita Sehgal and P.K. Sharma, "The Number of Fuzzy Subgroups of a finite Dihedral $D_{p^m q^n}$ ", International Journal of Fuzzy Mathematical Archive, Vol. 8, No.1, 2015, pp. 51-57.
62. Narender Kumar , Amit Sehgal, Sarita Sehgal, P.K. Sharma, Quadratic Form of Subgroups of a finite Abelian p-Group of Rank two, Annals of Pure and Applied Mathematics, Vol. 10, No. 2, 2015, pp. 165-167.
63. Amit Sehgal, Sarita Sehgal and P.K. Sharma, Fuzzy Subgroups of a finite Abelian Group $Z_p^m \times Z_q^r \times Z_p^n \times Z_q^s$ " accepted for presentation in "The 4th International Fuzzy Systems Symposium", to be held at the Yildiz Campus of Yildiz Technical University, Istanbul, Turkey on November 5- 6, 2015.
64. Meenu Sharma, P.K. Sharma , " A study on translation of intuitionistic fuzzy groups, International Journal of Mathematical Education, Vol. 5 , No.1, (2015), pp. 71-79
65. P.K. Sharma, " On intuitionistic fuzzy abelian subgroups – II" Advances of Fuzzy Sets and Systems, 21(1) 2016, pp. 1-6
66. Meenu Sharma and P.K. Sharma, " Intuitionistic (T,S)-fuzzy submodule of a module", Global Journal of Mathematics and Mathematical Sciences, ISSN 0972-9836, Volume 5, Number 1 (2015), pp. 65-73.
67. P.K.Sharma, "Boolean Algebraic Intuitionistic Fuzzy Topological Spaces" , The Journal of Fuzzy Mathematics, Vol. 24, No. 2, 2016, pp. 483- 497.
68. Amit Sehgal , Sarita Sehgal and P.K. Sharma, The number of fuzzy subgroups of a finite abelian p-group $Z_{p^m} \times Z_{p^n}$, Advances in Fuzzy Sets and System, 21(1) 2016, pp. 49-57.
69. Mohammad. Yamin and P.K.Sharma "Group action on fuzzy modules", Applied Mathematics, Vol. 7, 2016 , 413- 421.
70. P K Sharma, Shakil A Habib and Mohammad Yamin, Using intuitionistic fuzzy database for medical Diagnosis, Proceedings of the 10th INDIACom, 2016, 3rd

International Conference on Computing for Sustainable Global Development, IEEE Explore, [Online], ISBN: 978-9-3805-4421-2, PP. 1408-1411. Available from <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arn...> ((ISI PUBLICATION))

71. Amit Sehgal, Sarita Sehgal and P.K. Sharma, The number of automorphism of a finite abelian group of rank two, *Journal of Discrete Mathematical Sciences & Cryptography*, Vol., 19, no. 1, 2016, pp. 163-171.
72. P.K.Sharma and Tarandeep Kaur, “On intuitionistic fuzzy representation of intuitionistic fuzzy G-modules” *Annals of Fuzzy Mathematics and Informatics*, Vol. 11, No. 4, 2016, pp. 557–569. Impact Factor: 1.1147
73. P.K. Sharma, “Reducibility and Complete Reducibility of intuitionistic fuzzy G-modules , *Annals of Fuzzy Mathematics and Informatics* Vol. 11, No. 6, 2016, pp. 885–898. Impact Factor: 1.1147
74. P.K. Sharma, “Semi-simple Intuitionistic Fuzzy G- Modules”, *International Journal of Pure and Applied Researches*, Vol. 1, no. 2, 2016, pp. 101- 108.
75. P.K. Sharma and Simpi Chopra, “ Injectivity of intuitionistic fuzzy G-modules”, *Annals of Fuzzy Mathematics and Informatics* Vol. 12, no. 6, 2016, pp. 805-823.
76. P.K. Sharma, “Group action on intuitionistic fuzzy modules”, *International Journal of Pure and Applied Mathematical Technologies*, Vol. 1, no. 1, 2016, pp. 24-37.
77. P.K. Sharma, “Isomorphism Theorems for Intuitionistic Fuzzy Submodules of G-Modules”, *Notes on Intuitionistic Fuzzy Sets*, Vol. 22, no. 4, 2016 ,pp. 80-88.
78. P.K.Sharma and Gagandeep Kaur, “Intuitionistic fuzzy superfluous modules”, *Notes of Intuitionistic Fuzzy Sets*, Vol. 22, No. 3, 2016, 34-46.
79. P.K. Sharma and Kanchan Sandhu, “On Pseudo Intuitionistic Fuzzy Cosets”, *International Journal of Mathematical Sciences and Applications* Vol.6. No.2, 2016, pp. 611-618.
80. P.K. Sharma and Manpreet Kaur, “ Translates of Intuitionistic M-fuzzy Groups”, *International Journal of Pure and Applied Researches*, Vol. 3, Issue 1, 2016, pp.1-10.
81. P.K. Sharma and Simpi Chopra, “Projectivity of intuitionistic fuzzy G-modules”, *Advances in Fuzzy Sets and Systems*, Vol. 21, No. 3, 2016, pp. 239-264.

82. P.K. Sharma, “Translates of intuitionistic fuzzy G-modules”, proceeding of the National Conference on Recent Trends and Technologies in Data Science and Artificial Intelligence (NCTDA-2016) held on 26th -27th August 2016 at Department of Computer Science & IT, Baderwah Campus, University of Jammu ISBN: 978-93-5112-284-4.
83. P.K. Sharma and Vandana Bansal, “Intuitionistic Fuzzy Graph Structures”, IOSR Journal of Mathematics, Volume 12, Issue 5 Ver. I (Sep. - Oct.2016), PP. 28-33.
84. P.K. Sharma, “On Intuitionistic fuzzy G-modules on $GF(p^n)$ ”, Asian Journal of Fuzzy and Applied Mathematics, Vol. 4, no. 4, 2016, pp. 47-53.
85. P.K. Sharma, “Direct sum of intuitionistic fuzzy submodules of G-modules”, Asian Journal of Fuzzy and Applied Mathematics, Vol. 4, no. 4, 2016, pp. 36-46.
86. P.K. Sharma and Gagandeep Kaur, “Intuitionistic fuzzy superfluous submodules”, Notes on Intuitionistic Fuzzy Sets, Vol. 22, No. 3, 2016, pp. 34-46.
87. Amit Sehgal, Sarita Sehgal, Manjeet Jakhar and P.K. Sharma, “Quadratic Form of Automorphism of a finite Abelian p-group of rank two”, Advances in Algebra, Volume 9, Number 1 (2016), pp. 17-21.
88. Amit Sehgal, Sarita Sehgal and P.K. Sharma, The number of subgroups of a finite abelian p-group of rank 3, Journal of Calcutta Mathematical Society, Vol. 12, No. 2, 2016, 137-152.
89. P.K. Sharma, Anti Fuzzy G-modules, Advances in Fuzzy Sets and Systems, Vol. 21, No.4, 2016, pp. 303 – 315.
90. P.K. Sharma, “ On intuitionistic fuzzy projective and injective modules”, JMI International Journal of Mathematical Sciences, Vol. 4, No.1, January-June 2016, pp. 1-9.
91. Amit Sehgal, Preeti, P.K.Sharma and Sarita Sehgal, Fuzzy Subgroups of Non – Abelian group $\mathbf{Z}_{p^n} \rtimes \mathbf{Z}_p$ for any prime p, presented at the International Conference on Differential Geometry, Algebra and Analysis, from Nov. 15-17, 2016 held at Jamia Millia Islamia, New Delhi-25.

- 92.** Amit Sehgal, Sarita Sehgal P.K. Sharma and Manjeet Jakhar, Fuzzy subgroups of a finite Abelian Group $Z_{p^m q^r} \times Z_{p^n}$, *Advances in Fuzzy Sets and Systems*, Vol. 21, No.4, 2016, pp. 291-302.
- 93.** P.K. Sharma presented research paper titled “t-intuitionistic fuzzy G-modules” in the International Conference on Differential Geometry, Algebra and Analysis to be held at Jamia Millia Islamia University, New Delhi from 15-17th November, 2016, and published in the proceeding (Springer Proceedings in Mathematics & Statistics), ISBN-10: 9811554544. [1st ed. 2020 edition (5 September 2020)]
- 94.** Vandana Bansal and P.K. Sharma, ϕ -complement of intuitionistic fuzzy graph structure, *International Mathematical Forum*, Vol. 12 , No. 5, 2017, 241- 250.
- 95.** Chandni, P.K.Sharma, Pushpinder Singh and Manreet Singh “A Recursive formula for the number of intuitionistic fuzzy subgroups of a finite cyclic group” presented in the International Conference on Recent Advances in Fundamental and Applied Sciences (RAFAS-2016) held at LPU, Phagwara from Novemeber, 25-26, 2016, page 190. Proceeding published in *AIP Conference Proceedings* **1860**, 020033 (2017); doi: 10.1063/1.4990332, Published by AIP Publishing, ISBN: 978-0-7354-1534-8.
- 96.** Amit Sehgal, Sarita Sehgal P.K. Sharma and Manjeet Jakhar, Counting Subgroups of a Non-Abelian p-group $Z_{p^n} \times Z_p$, *International Journal of Pure and Applied Mathematics*, Vol. 113, No. 10, (2017), 37-46.
- 97.** P.K. Sharma and Vandana Bansal, Some elementary operations on intuitionistic fuzzy graph structures, *International Journal of for Research in applied Science and Engineering Technology*, Volume 5, Issue VIII, August 2017, pp. 240-255.
- 98.** P.K. Sharma and Gagandeep Kaur, On Annihilator of Intuitionistic Fuzzy Subsets of modules, proceeding of Third International Conference on Fuzzy Logic Systems (Fuzzy-2017), published by Dhinaharan Nagamalai et al. (Eds) : SIGEM, CSEA, Fuzzy, NATL – 2017, pp. 37– 49, 2017. © CS & IT-CSCP 2017 DOI : 10.5121/csit.2017.70904.
- 99.** P.K. Sharma and Gagandeep Kaur, Residual quotient and annihilator of intuitionistic fuzzy sets of ring and module, *International Journal of Computer Science &*

Information Technology (IJCSIT) , Vol 9, No 4, August 2017, pp. 1-15. Also available at <http://ssrn.com/abstract=3894747>

- 100.** P.K. Sharma and Vandana Bansal, Self Centeredness in Intuitionistic Fuzzy Graph Structure, International Journal of Engineering, Science and Mathematics (IJESM), Vol. 6, no. 5, (2017), 124-134.
- 101.** P.K. Sharma, “Exact sequence of intuitionistic fuzzy G-modules”, Notes on Intuitionistic Fuzzy Sets, Vol. 23, no. 5, (2017), 66-84.
- 102.** P.K. Sharma, Gagandeep Kaur, Intuitionistic fuzzy prime spectrum of a ring, CiiT International Journal of Fuzzy Systems, Vol. 9, no. 8, (2017), 167-175.
- 103.** P.K. Sharma, Gagandeep Kaur, Intuitionistic fuzzy cosmall submodule, CiiT International Journal of Fuzzy Systems , Vol.9, no. 9, (2017), 185-188.
- 104.** P.K. Sharma and Vandana Bansal, Bridges and cut-vertices of Intuitionistic Fuzzy Graph Structures, International Journal of Engineering, Science and Mathematics (IJESM), Vol. 6, no. 8, (2017), 349-358.
- 105.** P.K.Sharma, Kanchan and D.S Pathania, Intuitionistic Fuzzification of Sylow’s Theorems, Presented in the International Conference on Soft Computing Applications in Wireless Communication (SCAWC-17), held at at Guru Nanak Dev Engineering College, Ludhiana, Punjab, India, from 9-11 March 2017. Proceeding published by GRENZE Scientific Society, ISBN: 9781510860865.
- 106.** P.K. Sharma, Gagandeep Kaur, On the intuitionistic fuzzy polynomial ideals of a ring, Notes on Intuitionistic Fuzzy Sets, Vol. 24, no.1, 2018, pp. , 48 -59.
- 107.** P.K. Sharma, Interdisciplinary Approach in Mathematics. Conference: Academic & Administrative Audit in Higher Education Institutions. (2018). DOI: 10.13140/RG.2.2.13545.19044
- 108.** Mohammad Yamin and P.K. Sharma, Intuitionistic fuzzy rings with operators, International Journal of Mathematics And Computer Research, Vol. 6, no. 2, 2018, pp. 1860-1866.
- 109.** P.K. Sharma, Gagandeep Kaur, Radical Structures of intuitionistic fuzzy polynomial ideals in a ring, Notes on Intuitionistic Fuzzy Sets, Vol.24, no., 4, 2018, pp. 85-96.

110. P.K. Sharma, Gagandeep Kaur, Intuitionistic fuzzy hollow submodules, Notes on Intuitionistic Fuzzy Sets, Vol.24 , no., 2, (2018), 25-32.
111. P.K. Sharma , Vandana Bansal, D.S. Pathania, Regular Intuitionistic Fuzzy Graph Structure, International Journal for research in Applied Science and Engineering Technology, Vol. 6, number IV, (2018). pp. 3722 -3729. (Impact Factor- 6.887)
112. P.K. Sharma, Gagandeep Kaur, D.S. Pathania, Intuitionistic fuzzy supplement and intuitionistic fuzzy coclosed submodules, International Journal of Latest Trends in Engineering and Technology (IJLTET) , Vol. 10, no. 2, (2018), pp. 61-66.
113. P.K. Sharma and Kanchan, On intuitionistic L-fuzzy prime submodules, Annals of Fuzzy Mathematics and Informatics, Vol. 16, no. 1, 2018, pp. 87-97. Impact Factor: 1.1147
114. P.K. Sharma and Gagandeep Kaur, On intuitionistic fuzzy prime submodules, Notes on Intuitionistic Fuzzy Sets, Vol. 24, no. 4, 2018, pp. 97-112.
115. Gagandeep Kaur, D.S. Pathania and P.K. Sharma, Intuitionistic fuzzy small submodule with respect to an arbitrary intuitionistic fuzzy submodule, **CiiT International Journal of Fuzzy Systems** , Vol.10, no. 10, (2018), 225-229.
116. Amit Sehgal, Sarita Sehgal, P. K. Sharma and Yashpal, Counting series of subgroups of $Z_{p^m q^n}$ which contains a subgroup of order p, Advances and Applications in Mathematical Sciences, Vol. 18, Issue 3, Jan. 2019, pp 279-284
117. Agin Kumari, Preeti, Amit Sehgal, P.K. Sharma, Sarita Sehgal, Fuzzy Subgroups of Non –Abelian Group $Z_p^n \rtimes Z_p$ for any Prime p, AIP Conference Proceedings 2142, 170025 (2019); <https://doi.org/10.1063/1.5122622>, Published Online: 29 August 2019, PP, 170025-1 TO 170025-4.
118. Poonam Kumar Sharma, Bhavanari Satyanarayana, Abul Basar, A Note On Archimedian Chained Γ -Semigroups, Volume 4, Issue 12, 2019, pp. 298-301.
119. Abul Basar, Shahnawaz Ali, Mohammad Yahya Abbasi, Bhavanari Satyanarayana and Poonam Kumar Sharma, On some hyperideals in ordered semihypergroups, Journal of New Theory, Vol. 29, 2019, pp. 42-48.

- 120.** Abul Basar, Shahnawaz Ali, Poonam Kumar Sharma, Bhavanari Satyanarayana, Mohammad Yahya Abbasi, "A study of ordered bi- Γ -hyperideals in ordered Γ -semihypergroups" , Ikonion Journal of Mathematics, Vol. 1, no. 2, 2-19, (2019) , pp. 34-45.
- 121.** . Abul Basar, S Ali and P K Sharma, An excursion through some characterizations of hypersemigroups by normal hyperideals, International Journal of Mathematics Trends and Technology, 65(12) (2019), 142-147. ISSN: 2231-5373.
- 122.** Abul Basar, Poonam Kumar Sharma, A Walk Through Completely Normal Bihyperideals in Hypersemi groups, International Journal of Mathematics Trends and Technology (IJMTT) – Volume 66 Issue 2 - Feb 2020, pp. 42-48.
- 123.** Kanchan, P.K. Sharma and D.S. Pathania, On intuitionistic L-fuzzy Submodules, Advances in Fuzzy Sets and System, Vol. 25, no.2, (2020), 123-142.
- 124.** P.K.Sharma, Kanchan, On intuitionistic L-fuzzy primary and P-primary submodules, , Malaya Journal of Matematik, Vol. 8, No. 4, (2020), 1417-1426.
- 125.** P.K. Sharma and Kanchan, Some topological properties of spectrum of intuitionistic fuzzy prime submodules, Malaya Journal of Matematik, Vol. 8, No. 4, 2020, 1358-1362.
- 126.** P.K.Sharma, Kanchan, D.S. Pathania, On decomposition of intuitionistic fuzzy prime submodules, Notes on Intuitionistic Fuzzy Sets Vol. 26, No. 2, (2020), 25-32.
- 127.** P.K. Sharma, Intuitionistic fuzzification of essential submodule with respect to an arbitrary submodule, Annals of Fuzzy Mathematics and Informatics, Vol., 20, no. 3, 2020, pp. 223-234. Impact Factor: 1.1147
- 128.** P.K.Sharma, , Kanchan, D.S. Pathania On decomposition of intuitionistic fuzzy primary submodules, Malaya Journal of Matematik, Vol.8. No. 4, (2020), pp. 1708-1712.

- 129.** A. Basar, N. Yaqoob, M. Y. Abbasi, Bhavarisatyanarayana and P.K. Sharma, On Characterization of regular ordered ternary Semihypergroups by relative hyperideals, *Annals of Communications in Mathematics*, Volume 4, Number 1 (2021), 73-88.
- 130.** P.K. Sharma and Kanchan, On the topological structure of spectrum of intuitionistic L- fuzzy prime submodules, *Annals of Fuzzy Mathematics and Informatics*, Vol. 21, No, 2, 2021, PP. 195-215.
- 131.** Abul Basar, Bhavanari Satyanarayana and P.K. Sharma, Relative act hyperideals and relative hyperideals of hypersemigroups, *Journal of Xi'an University of Architecture & Technology*, Volume XIII, Issue 4, 2021, pp. 607-622.
- 132.** Abul Basar, Bhavanari Satayanarayana, Poonam Kumar Sharma, Mallikarjun Bhavanari and Srinivasulu Devanaboina, A note on globally idempotent and archimedian gamma Semigroups and their characterization by relative maximal and relative prime gamma ideals, *International Journal of Research in Humanities , Arts and Literature*, Vol. 9, issue 6, (2021), 29-38.
- 133.** P.K. Sharma, Chandni, On the category of Intuitionistic fuzzy groups” , presented in the 7th International Conference on IFS and Contemporary Mathematics, from May 25-29, 2021, held at Turkey and published in *Notes on Intuitionistic Fuzzy Sets*, Vol. 27, no. 4, (2021), pp. 55-70.
- 134.** P.K. Sharma , Kanchan, Simple and Semi- Simple intuitionistic L-fuzzy modules, presented in the 7th International Conference on IFS and Contemporary Mathematics, from May 25-29, 2021, held at Turkey
- 135.** P.K. Sharma, Kanchan, Gagandeep Kaur, Intuitionistic L-fuzzy essential and closed submodules, presented in the 7th International Conference on IFS and Contemporary Mathematics, from May 25-29, 2021, held at Turkey and published in *Notes on Intuitionistic Fuzzy Sets*, Vol. 27, no. 4, (2021), pp. 44-54.
- 136.** Amit Sehgal, P.K. Sharma, Commutative associative binary operations on a set with six elements, presented in the 7th International Conference on IFS and Contemporary Mathematics, from May 25-29, 2021, held at Turkey.

- 137.** P.K. Sharma, Intuitionistic fuzzy characteristic of a ring, (July 22, 2021). Available at SSRN: <https://ssrn.com/abstract=3891216> or <http://dx.doi.org/10.2139/ssrn.3891216>
- 138.** Abul Basar, Bhavanari Satyanarayana, Kuncham Syam Prasad, Poonam Kumar Sharma and Mohammad Yahya Abbasi, A note on relative Gamma-ideals in abstract affine G-nearrings, GIS SCIENCE JOURNAL, 8 (10) (2021), 9-13.
- 139.** Abul Basar, Bhavanari Satyanarayana, Poonam Kumar Sharma and Mohammad Yahya Abbasi, Glimpses of contributions of some top Indian mathematicians: A review article, International Journal of Statistics and Applied Mathematics 2021; 6(6): 62-67.
- 140.** P.K. Sharma, Hem Lata, Nitin Bharadwaj, Extensions of intuitionistic fuzzy ideal of Γ -ring, presented in the International conference on Recent Trends in Mathematics, held at H.P. University, Shimla from 6-7th September, 2021 online.
- 141.** Abul Basar, Sabahat Ali Khan, Bhavanari Satyanarayana and Poonam Kumar Sharma, A note on basic results on relative ordered Γ -ideals in ordered LA- Γ -semigroups, Gisscience Journal, Vol. 9, Issue 1, (2022), pp. 27-37.
- 142.** Abul Basar, Bhavanari Satyanarayana and Poonam Kumar Sharma, Indian Influence in Mathematics of Abu Ja'far Muhammad ibn Musa Al-Khwarizmi: A Survey Article, Journal of Interdisciplinary Cycle Research, Vol. 14, Issue 1, (2022) 188-191.
- 143.** Bhavanari Satyanarayana, Poonam Kumar Sharma and Abul Basar, The Vedas as the Original Source of the Hindu Indian Ancient and Modern Mathematical Sciences: A Survey Article, Journal of Mathematical Problems, Equations and Statistics 2022; 3(1), pp. 06-10.
- 144.** P.K. Sharma, Chandni and N. Bhardwaj, Category of Intuitionistic Fuzzy Modules, Mathematics 2022, 10(3), 399. <https://doi.org/10.3390/math10030399>
- 145.** A. Basar, M. Y. Abbasi, B. Satyanarayana, P. K. Sharma and S. A. Khan, Some contribution to study of general relative prime and weakly prime bi-hyperideals in

- ordered hypersemigroups, European Journal of Mathematics and Applications, 2(5)(2022), DOI: 10.28919/ejma.2022.2.5
- 146.** Hem Lata, P.K. Sharma, On the intuitionistic fuzzy translational subset of a Γ -ring, Notes on Intuitionistic Fuzzy Sets, Vol. 28, No. 1, (2022), pp. 11-22.
- 147.** P.K. Sharma, Hem Lata, Intuitionistic fuzzy characteristic ideal of a Γ -ring, South East Asian Journal of Mathematics and Mathematical Sciences, Vol. 18, No. 1 (2022), 49-70.
- 148.** P.K. Sharma, Hem Lata, Nitin Bharadwaj, On Intuitionistic Fuzzy Structure Space On Γ -Ring, Creative Mathematics and Informatics, Vol. 31, No. 2, 2022, 215-228.
- 149.** P.K. Sharma, On intuitionistic fuzzy multiplication modules, Annals of Fuzzy Mathematics and Informatics, Vol. 23, No. 3, (2022) , 295-309.
- 150.** P.K. Sharma, On intuitionistic fuzzy semiprime submodules, Notes on Intuitionistic Fuzzy Sets, Vol. 28, No. 2, 2022, 161–171.
- 151.** A. Basar, S. A. Khan, P. K. Sharma and B. Satyanarayana, On relative ordered Hoehnke Γ -hyperideal and Γ -hyperideals in chain ordered Γ -semihypergroups, GS Journal Volume 9, Issue 7, (2022) , pp. 2793-2803.
- 152.** P.K. Sharma, Hem Lata, Nitin Bharadwaj, Intuitionistic Fuzzy Prime Radical and Intuitionistic Fuzzy Primary Ideal Of A Γ -Ring, Creative Mathematics and Informatics, Vol. 32, No. 1, 2023 (to appear)
- 153.** Dr. Abul Basar, Dr. Ayaz Ahmad, Prof. Dr. Bhavanari Satyanarayana, Dr. Poonam Kumar Sharma and Dr. Md. Sanjeel, On relative ordered Γ -Hyperideals and relative prime segments in chain ordered Γ -Semihypergroups, Journal of XI'AN University of Architecture and Technology, Vol. XIV, Issue 8, (2022), pp. 300-309
- 154.** P.K. Sharma, Hem Lata, Nitin Bharadwaj, A study on intuitionistic fuzzy 2-absorbing primary ideals in Γ -ring, Notes on Intuitionistic Fuzzy Sets, Vol. 28, No. 3, (2022) (to appear)
- 155.** P.K. Sharma, On intuitionistic fuzzy primary ideal of a ring, Pan-American Journal of Mathematics, 1 (2022), 11 <https://doi.org/10.28919/cpr-pajm/1-11>

- 156.** P.K. Sharma, Chandni, Special types of morphisms in the category of intuitionistic fuzzy modules, Serdica Mathematical Journal (Communicated)
- 157.** P.K. Sharma, Hem Lata, Nitin Bharadwaj, On The Expansion Of Intuitionistic Fuzzy Ideals Of Γ -Ring, submitted for International Conference on Algebra, Analysis and Applications, Manipal 2023.
- 158.** P.K. Sharma, Hem Lata and Nitin Bharadwaj, Decomposition of intuitionistic fuzzy primary ideal of Gamma-ring , Annals of Fuzzy Mathematics and Informatics (Submitted on 17th July, 2022)
- 159.** A. Basar, B. Satyanarayana, S. A. Khan and P. K. Sharma, A novel approach towards clean generalized characterization of ordered LA-semihypergroup by ordered relative hyperideals, Annals of Communications in Mathematics, (Communicated)
- 160.** Bhavanari Satyanarayana, Poonam Kumar Sharma and Abul Basar, "On ordered (m, n)-hyperideals in ordered LA-semihypergroups" (Communicated)
- 161.** P.K. Sharma, On intuitionistic fuzzy chain modules (Under Preparation)
- 162.** P.K. Sharma, Intuitionistic L-fuzzy classical prime submodules, (under preparation)
- 163.**

Talks / Paper Presentations in Conferences / Colleges

- 1.** Delivered an invited talk on the topic "Intuitionistic fuzzy polynomial ideal of a polynomial ring and its nil radical structures" in the 8th International conference of IFSCOM2022 held at Turkey online from 16-19 June, 2022.
- 2.** Delivered an invited talk on the topic "Emerging Approaches to Computing Techniques" in a webinar organized by the Department of Mathematics of R.R. Bawa D.A.V. College for girls, Batala, on March 24, 2022.

3. Delivered an invited talk on the topic “Recent Trends in Mathematics and its applications in other fields”, on the National Science Day organized by Dev Samaj College for women 28th Feb.- 5th March, 2022.
4. Co-chaired a Session on 22nd December, 2020 in the Online International Conference on “ History and Development of Mathematics”, sponsored by HSCSIT Held by the Deptt. of Mathematics of MDU Rohtak.
5. Delivered an invited talk on the topic “ on Intuitionistic fuzzy Aspect of superfluous submodules of a modules”, International conference on recent advances in algebra, analysis and applications held at Mohanlal Sukhadia University, Udaipur from 20-22 December, 2019.
6. Attended a National webinar on “Mathematics in Science and Technology” organized by Maharishi Dayanad University Rohtak on 15-10-2020.
7. Attended a webinar on “Municipal Solid Waste Management” sponsored by DBT organized at DAVC Jalandhar on 03-10-2020.
8. Attended an International online workshop on “ New Trends in Fuzzy and Rough Sets Theory and its Applications” organized by Manipal University Jaipur from 25-29, September, 2020.
9. Attended a webinar on “Unfastening the social Knots against Mathematics” organized at Kamala Nehru College, University of Delhi on 11-06-2020.
10. Chair Person at the 2nd session of J & K Science Teachers Science Congress from 25-27 March, 2019 held at G. G. Science College Jammu.
11. Delivered an invited talk on the topic “Problems relating to pasting lemma for continuity and uniform continuity” at the Conference held at Govt. College for women, Ghandi Nagar, Jammu form 26th – 28th Feb., 2019.
12. Delivered a guest lecture on the topic “Fuzzy Mathematics & its Importance in Technology” on the occasion of celebration of Mathematics Day at GGSDS College, Haryana (Hoshiarpur) on 15th Feb., 2019. .
13. Chaired a Session on 8TH Feb. 2019 in the 22nd Punjab Science Conference under the aegis of Punjab Academy of Sciences, Patiala held at DAVIET, Kabir Nagar, Jalandhar from February, 7-9, 2019.
14. Presented a poster presentation in the MTA Inaugural Conference -2019 at the Homi Bhabha Centre for Science Education, TIFR, Mumbai from 3-5th Jan., 2019.

15. Delivered an invited talk on “Intuitionistic fuzzy polynomial ideals of a polynomial ring” in the National Conference of Recent Development in Algebra and Analysis, at Govt. Gandhi Memorial Science College, Jammu from 13-14th December, 2018.
16. Delivered an invited talk on “Intuitionistic fuzzy polynomial ideals” in the International Conference of Algebra and Continuum Mechanics, at Himachal Pardesh University Shimla from 23-25th November, 2018.
17. Delivered an invited talk on “Fuzzy Mathematics & its Importance in Technology” in The One day Seminar held on National Science Day at Govt. College Sri Muktsar Sahib on 28th Feb., 2018
18. Delivered an invited talk on “ Eigenvalues and Eigenvectors and its Applications” at Vellore college for women, Erode, Tamilnadu, in the DBT funded two day programme in Interaction with International Experts during 8th-9th January, 2018.
19. Presented a research paper (with Gagandeep Kaur) titled “On the intuitionistic fuzzy polynomial ideals of a ring,” in the ICIFSS-2018, held at Erode, Tamilnadu, from 8-10th January, 2018 and published in the Journal, Notes on Intuitionistic Fuzzy Sets, Vol. 24, no. 1, (2018), 48-59.
20. Presented a research paper titled “Interdisciplinary Approach in Mathematics”, in a National Seminar on Academic & Administrative Audit in Higher Education Institutions, Sponsored by NAAC, Bengaluru, held at D.A.V. College, Jalandhar from 19-20, January, 2018.
21. Presented a research paper (with Gagandeep Kaur) titled “On Annihilator of Intuitionistic Fuzzy Subsets of modules,” in the 3rd International Conference on Fuzzy Logic Systems (Fuzzy-2017) held at Chennai, India from 29-30th July, 2017, proceeding published by Dhinakaran Nagamalai et al. (Eds) : SIGEM, CSEA, Fuzzy, NATL 2017, pp. 37 49, 2017. DOI : 10.5121/csit.2017.70904.
22. Presented a research paper titled “ t-intuitionistic fuzzy G-modules” in the International Conference on Differential Geometry, Algebra and Analysis, from Nov. 15-17, 2016 held at Jamia Millia Islamia, New Delhi-25.
23. Presented a research paper (with Gagandeep Kaur) titled “Intuitionistic fuzzy superfluous modules” in the 20th International conference on Intuitionistic Fuzzy Sets to be held from 2-3rd September, 2016 at Sofia, Bulgaria.

24. Presented a research paper titled “Translates of intuitionistic fuzzy G-modules” at the National Conference on Recent Trends and Technologies in Data Science and Artificial Intelligence (NCTDA-2016) held on 26th -27th August 2016 at the Department of Computer Science & IT, Baderwah Campus, University of Jammu.
25. Delivered an Extension lecture titled “Relation between modules and vector spaces” at SGGGS Khalsa College, Mahilpur (Hoshiarpur) on 17th August, 2016.
26. Attended two day National Seminar on “ Use of Technical Terminology in Science Teaching” organized by Commission for Science and Technical Terminology at Dayanand college, Ajmer from 12th August, 2016 to 13th August, 2016.
27. Delivered an Guest lecture titled “Eigenvalues” at D.A.V. College, Hoshiarpur on 26th February, 2016
28. Delivered an Invited talk on “Boolean Algebraic Intuitionistic Fuzzy Topological Spaces”, in the 3rd Annual National conference on “ Topological Algebra and Analysis”, at Govt. Gandhi Memorial Science College, Jammu from 18-19 March, 2016.
29. Delivered two Guest Lectures on “Linear Algebra and Functional Analysis” at the Department of Applied Sciences (Mathematics) , Chandigarh University, Mohali on 18th January, 2016.
30. Delivered an Invited talk on “Boolean Algebraic Fuzzy Topological Spaces”, in the National conference on “Recent Trends in Mathematical Sciences”, at Shri Mata Vaishno Devi University, Katra from 8-9 October, 2015.
31. Delivered two Guest Lectures on “Real Analysis and Modern Algebra” at the Department of Applied Sciences (Mathematics) , Chandigarh University, Mohali on 25th August, 2015.
32. Delivered a talk titled” Some aspects of intuitionistic, fuzzy quasi ideals, ideals and bi-ideals in nearrings” at the International Conference on Nearrings, Nearfields and Related Topics, held at **Manipal Institute of Technology, Manipal University** from 05-12, July 2015.
33. Delivered an Extension lecture titled “ Eigenvalues and Eigenvectors and their applications” at Guru Nanak National College for Women, Nakodar on 27th March., 2015

34. Delivered an Invited talk on “Group Action on intuitionistic fuzzy modules”, in the National conference on “Recent Trends in Algebra and Analysis”, at Govt. Gandhi Memorial Science College, Jammu from 15-16 March, 2015.
35. Delivered an Extension lecture titled “ Eigenvalues and Eigenvectors and their applications” at Dashmesh Girl College, Mukerian on 11th Feb., 2015
36. Delivered an Invited talk “ Group Intuitionistic Fuzzy Topological Spaces”, in the International conference on “Algebra and Its Applications”, at Aligarh Muslim University, Aligarh from 15-17 December, 2014.
37. Delivered an Invited talk “On fuzzy topological spaces involving group structures” in the International conference on “Algebra, Geometry , Analysis and their Applications” at Jamia Millia Islamia (Central University), New Delhi from Nov. 27-29, 2014
38. Delivered an Invited talk on “An Introduction to Intuitionistic Fuzzy Groups” at the National Workshop on “Optimization and Fuzzy Mathematics”, held at Vidyasagar University, West Bengal from 9-13 Sept. 2014.
39. Delivered an Invited talk “ How Mathematics make our life easy and beautiful” in the INSPIRE-2014 , Sponsored by DST , held at ISF College of Pharmacy, Moga , Punjab on 20th May, 2014.
40. Delivered a talk on the topic “ Pasting Lemma for Uniform continuity” in the National conference on Analysis and Its Applications” held at Govt. Gandhi Memorial Science College, Jammu on 27th March, 2014
41. Delivered an Extension lecture titled “ Prime numbers and their applications” at KRM D.A.V. College , Nakodar on 15th March., 2014
42. Delivered an invited talk titled” Fuzzy Algebra”, in the national seminar on “ Algebra and Its Applications” at Govt. College, Birohar (Jhajjar) (Haryana) on 1st Feb., 2014
43. Delivered an invited talk titled “ An Introduction to Intuitionistic Fuzzy Group”, in the International conference On Information and Mathematical Sciences held at Baba Farid College of Engineering and Technology, Bathinda from October, 24-26, 2013.
44. Presented a research paper(with Aradhna Duggal) titled “ Intuitionistic (T,S)-Fuzzy Bi-ideal of a ring”, in the International conference On Information and

Mathematical Sciences held at Baba Farid College of Engineering and Technology, Bathinda from October, 24-26, 2013, Proceeding published by ELSEVIER, pp. 327-331

45. Presented a research paper (with Aradhna Duggal) titled “ Intuitionistic Fuzzy Bi-Ideal of a ring “ The 2013 International Conference on Scientific Computing (CSC’13) held in Las Vegas, Nevada, USA, July, 22-25, 2013, page 158-164
46. Presented a research paper titled “ On Number of fuzzy subgroups of a finite cyclic group”, in the National conference on Advances in Mathematics & its Applications, organized by Department of Mathematics National Institute of Technology Hamirpur from 25th – 27th June , 2013, page 293-298
47. Had been an Invited Resource Person in the National Seminar on “Recent Trends in Pure and Applied Mathematics”, at Hindu College, Amritsar on 13th March., 2013
48. Delivered a talk on the topic “ On Intuitionistic fuzzy mathematics” in the National conference on Recent Trends in Discrete and Fuzzy Mathematics held at D.A.V. College, Jalandhar from 2-4th Feb., 2013
49. Presented a research paper titled “ Translates of (Anti) Fuzzy Submodules”, at the 21st International Conference of Forum of Interdisciplinary Mathematics held at Panjab University Chandigarh from 15-17, Dec., 2012
50. Participated in the 27th Annual Conference of Ramanujan Mathematical Society held at Delhi from 20-23, Oct., 2012
51. Presented a research paper (with Mohammand Yamin) titled “Structure of relative relation modules of $SL(2,p)$ and $PSL(2,p)$ groups”, in the “International Conference of Mathematical Sciences and Statistics”, Malaysia, 5-7, Feb., 2013
52. Delivered an Invited talk on the topic “ Intuitionistic Fuzzy Algebra” , in the National conference on Algebra , Analysis and their Applications , sponsored by N.B.H.M and organized by M.A.M. College, Jammu from 18-19 August, 2012
53. Presented a research paper (with Ashu Bahl) titled “Translates of Intuitionistic fuzzy submodules”, International conference of Mathematics and Mathematical Sciences held at New Delhi from 7th July , 2012.
54. Presented a research paper (with Vandana Bansal) titled “On Intuitionistic anti-fuzzy ideals in rings”, International conference of Mathematics and Mathematical Sciences held at New Delhi from 7th July , 2012.

55. Presented a research paper titled “t- intuitionistic fuzzy subrings”, International conference of Mathematics and Mathematical Sciences held at New Delhi from 7th July , 2012.
56. Delivered an Invited talk “Importance of Applied Sciences in Engineering” at CT Institute , Shapur , at the Faculty development programme sponsored by PTU , from May , 15-19 , 2012.
57. Presented a research paper titled “t- Intuitionistic Fuzzy Quotient Group” in the National Conference in Algebra”, held at H.P. University, Shimla, 27-28 march 2012
58. Had been an Invited Resource Person in the National Seminar on “ Advanced Mathematics: Its Implications in Modern Era”, at R.R. Bawa college for Girls on 25th Feb., 2012
59. Had been an Invited Resource Person in the National Conference on “ Recent Advances and Methods in Mathematics Education”, at Ramgarhia College of Education from 15-16th Feb., 2012
60. Delivered an Extension lecture titled “ Eigenvalues and Eigenvectors and their applications” at KRM D.A.V. College , Nakodar on 10th Feb., 2012
61. Delivered an Invited talk “ Use of Fuzzy Mathematics in Technology” in the INSPIRE-2012 , Sponsored by DST , held at ISF College of Pharmacy , Moga , Punjab on 19th Jan. 2012.
62. Presented a research paper titled “On Intuitionistic Magnified Translation in Groups” in the 1st International Conference on Mathematical Sciences and Applications” , held New Delhi on 18th December , 2011
63. Presented a research paper (with Vandana Bansal) titled “Anti homomorphism of Intuitionistic Magnified Translation in Groups” in the 1st International Conference on Mathematical Sciences and Applications” , held New Delhi on 18th December , 2011.
64. Delivered an Extension Lecture “ Modules versus Vector spaces” at Post Graduate Department of Mathematics , D.A.V. College, Bathinda and Abhoar on 4th November, 2011
65. Presented a research paper “ (α, β) -Cut of Intuitionistic fuzzy modules” in the National Seminar “ On Innovations and Applications in Engineering and Applied

Sciences”, Organized at Gurukula Kangari Vishwavidyalaya , Haridwar , from November , 9-10, 2011.

66. Presented a research paper “ On intuitionistic fuzzy order of an element in a group” in the “ National Conference on Recent Trends in Information Technology and Its Applications in Industry” held at Baderwah Campus , University of Jammu from 25th Sept, - 26th Sept., 2011.
67. Presented a search paper on “Common fixed point for two pair of compatible mapping” in the International Conference on “ Mathematics and soft computing application in Engineering” Sponsored by DST , DRDO and ICMR at N.C College of Engineering, Israna , Panipat. (Dec. 2010)
68. Presented a paper on “ Eigenvalues and Eigenvector and their applications” in the U.G.C. Sponsored National Seminar on “ Importance of Mathematics “ at S.L. Bawa D.A.V. College , Batala on Feb., 26 , 2011.
69. Delivered a talk on “ Studying groups by generators and relations” at the 25th Conference of **Ramanujan Mathematical Society held at NIT , Jalandhar** , from May 3- 5 , 2010.
70. Delivered an extension lecture “Modules Versus Vector Spaces” at **Govind National College, Narangwal Distt. Ludhiana.**, on 11th March. 2010.
71. Presented a search paper on “ Semi-Homeomorphism in Topological Spaces” in the Conference of **Jammu Mathematical Society , Jammu univ.** (Feb. 2010)
72. Attended an Advanced training school in Mathematics (ATML-2009), Organized by **National Board of Higher Mathematics (NBHM)**, held at **Panjab University Chandigarh** from 15th Dec., 2009 to 31st Dec., 2009.
73. Delivered an extension lecture “Eigenvalues and Eigenvectors and their Application at **Dev Samaj College for Women , Ferozpur City** on 26th Nov. 2009.
74. Presented a Search paper “Relative relation modules of $SL(2,p)$ and $PSL(2,p)$ groups” at the **11th National Conference of Indian Society of Information Theory and Application(ISITA)** held at GGS Khalsa college , Sarhali (Taran Taran) from 24th Oct. to 26th Oct., 2009

75. Participated in the workshop on Optimization Techniques and Their Applications To various Disciplines **Sponsored by DST, Govt. of India held at GGS Khalsa college , Sarhali (Taran Taran)** from 19th Oct. to 23rd Oct., 2009
76. Participated in the Four day Mathematical Olympiad Orientation Programme for School and College teachers **Sponsored by NBHM, held at D.A.V.C.Amritsar** from 24th Sept. to 27th Sept., 2009.
77. Delivered a talk on “ Application of Mathematics in Life” at **Dr. B.R. Ambedkar Institute of Technology , Jalandhar**, (7th November, 2008)
78. Delivered an **Extension Lecture** Titled “ Connectedness and disconnectedness in topological spaces ” at **Govind National College, Narangwal Distt. Ludhiana.**, (10th March, 2008)
79. Presented a search paper “On Semi-connectedness and locally semi-connectedness in topological spaces” in conference of **Jammu mathematical society**, Jammu Univ. (Feb. 2008)
80. Delivered an extension lecture “Modules Versus Vector Spaces” at **Dev Samaj College for Women, Ferozepur City** on 17th Nov. 2007.
81. Presented a search paper on “ Strongly connected spaces” in the 41st meeting of Programme Advisory Committee on Mathematical Sciences at **G.N.D.U. Amritsar** (Feb. 2007)
82. Presented a search paper on “ Fuzzy sets and Fuzzy system” in the National seminar on Information Theory and Operation Research at **S.S.M.C. Dinanagar** (Feb. 2006)
83. Delivered an **Extension Lecture** Titled “ **Importance Of Prime Numbers**” at **B.D. Arya Girls College, Jalandhar Cantt.**, (9th Jan, 2006)
84. Presented a search paper “ On Lattices of L-topological Spaces” in the National Seminar on Applied Mathematics at **M.A.M College, Jammu**(June , 2005)
85. Presented a search paper on “ Homotopy in Topological Spaces” in the Conference of **Jammu Mathematical Society , Jammu univ.** (Feb. 2005)
86. Participated in the Joint India American Mathematical Society Meeting At **IISc, Bangalore** ,(Dec. 2003)
87. Delivered a series of lectures on “Algebra and Set Theory” for an Inservice Orientation Course for the Maths. Lecturers of **Govt. Senior Secondary Schools of**

Jalandhar Division from 9-12-1996 to 14-12-1996 at **Govt. Inservice Training Centre Jalandhar.**

88. Presented a search paper on “Indecomposibility of Relative relation modules of finite p-group” in the **Indian Mathematical Society** Conference Held at **Aligarh Muslim Univ.** (Dec.1991)
89. Presented a search paper on “Decomposibility of Relative relation modules of finite elementary abelian p-group” in the **Indian Mathematical Society** Conference Held at **Gujarat Univ. Surat** (Dec.1990)

Research Project Completed

1. “The Relation modules of finite groups” Submitted to Kurukshetra university, Kurukshetra by **Bijoy Kumar Shill** in 1999
2. “Higher Relative relation modules” Submitted to Kurukshetra university, Kurukshetra, by **Vikram Verma** in 1999
3. “The Relative relation modules of finite groups” Submitted to Kurukshetra university by **Poonam Sharma** in Kurukshetra, 2000
4. “Generalized semi-closed sets in topological spaces” Submitted to Periyar University by **Arti Sharma** in April 2007
5. “Semi-generalized Regular spaces and semi-generalized Normal spaces” Submitted to Periyar University by **Rohit Sharma** in April 2007
6. “Decomposition of fuzzy topological spaces” Submitted to Periyar University by **Poonam Bhardwaj** in May 2007
7. “Strongly connected spaces” Submitted to Alagappa University by **Shallu**, in May 2007
8. “Semi-connectedness and semi-locally connectedness in Biotopological spaces” Submitted to Periyar University by **Shobik Soni** in June 2007

9. “ Certain Common Fixed Point Theorems” Submitted to Periyar University by **Pooja Anand** in July 2007
10. “ Connectedness in Biotopological spaces” Submitted to Periyar University by **Geetanjali** in July 2007
11. “ Quasi-metric space and Biotopological spaces” Submitted to Periyar University by **Pushpinder in** october, 2007
12. “ Fuzzy α - connecedness and Fuzzy α - disconnectedness in Fuzzy topological spaces.” Submitted to Chawdary Devi lal University , Hisar , Harayana by **Harinder Pal** in 2008
13. “Compactness in Fuzzy topological spaces” Submitted to Vinayka Mission Research Foundation–Deemed University, Saleem (Tamil-Nadu) by **Divya Kakkar** in 2008
14. “ Finistic spaces in L-topology” Submitted to Vinayka Mission Research Foundation–Deemed University, Saleem (Tamil-Nadu) by **Naveen Kumar** in 2008
15. “ Semi-continuity and Semi-homeomorphism in topological spaces” Submitted to SRI Venkateswara University , Tirupati by **Paramjeet Singh** in 2008.
16. “ Some weak form of continuity in Topological spaces” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Raman deep** in 2009
17. “ Fixed point Theorems in Generalized metric spaces” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Gagandeep Kaur** in, 2009
18. “ Minimal Presentation of Groups” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Najar Singh** in 2009
19. “ On Fuzzy Bitopological Spaces” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Kannu Kochhar** in 2009
20. “ Some Relation modules of Finite Groups” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Rajni Goyal** in 2009
21. “ Compactness in Bitopological spaces” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Gaurav Jindal** in 2009
22. “ Projective and Injective Modules “Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Sumit Garg** in 2009
23. “ On Semi-homeomorphism in Topological spaces” Submitted to Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Sushma Sharma** in 2009

24. “Relative Relation modules of Finite groups” Submitted for Maharishi Markandeshwar University (Mullana), Ambala, Harayana, by **Bharti Thakur**, June,2010
25. Some Common Fixed point Theorems in Metric Spaces” Submitted for Maharishi Markandeshwar University (Mullana), Ambala, Harayana by **Rualjit Kaur** in June, 2010

Project in Progress:

- (1) Supervising Ms. Kanchan Sandhu for Ph.D enrolled from PTU University, Jalandhar, Punjab. (**Thesis Submitted in April, 2021**)
- (2) Supervising Ms. Chandni for Ph.D enrolled from Lovely Professional University, Phagwara, Punjab.
- (3) Supervising Ms. Hemlata for Ph.D enrolled from Lovely Professional University, Phagwara, Punjab.

Courses Taught :

Topology, Modern Algebra, Real Analysis, Theory of Numbers, Dynamics and Statics
Linear Algebra and Calculus, Discrete Mathematics.

Membership of Professional Bodies :

1. Life Member of Ramanujan Mathematical Society (RMS) Membership No. -619
2. Life Member of Indian Society of Information Theory and Application (ISITA) Membership No. -128
3. Life Member of Jammu Mathematical Society (JMS) Membership No- JMS 128
- 4,. Life Member of Indian Mathematical Society (IMS)

Editor/ Referee / Reviewer of Journals

1. Member of the Editorial Board of “International Journal of Fuzzy Mathematics and Systems”, of Research India Publication, New-Delhi.
2. Member of the Editorial Board of “International Journal of Engineering Research & Management Technology, Published by : Advances Research Educational Society

3. Referee of Journal of Intelligent and Fuzzy System, STM Publishing House, IOS Press.
4. Referee of Neural Computing and Application, Springer Link
5. Referee of Journal of the Egyptian Mathematical Society
6. Referee of Annals of Fuzzy Mathematics and Informatics (AFMI).
7. Referee of Asian Journal of Mathematics and Computer Research
8. Referee of [Boletim da Sociedade Paranaense de Matemática](#), Universidade Estadual de Maringa, Website of State University of Maringa's Journal.
9. Referee of Journal of universal Mathematics, ISSN: 2618-5660.
<http://dergipark.org.tr/en/pub/jum/board>
10. <https://loop.frontiersin.org/people/1401922/bio>

Additional Qualification

1. Working knowledge on Latex software (December, 2014)
2. Certificate Course in C++ language form IBM with O- Grade (June, 2002)
3. Certificate Course in ABC of Windows from Tata InfoTech Education (Aug., 2001)
4. Working Knowledge of Foxfro Language (Private, 2000)

Additional Information (Recognition)

- **Awarded Lifetime achievement Award** by VDGGOOD Professional Association, in the International Scientist Award on Engineering, Science and Medicine, held at Salem, India on 08 & 09 Jan. 2021.
- Nominated in **who's who in the world** for 2015

Website Link Information

<http://livedna.org/91.4966>

<https://orcid.org/0000-0001-5463-8665>

<https://www.researchgate.net/profile/Poonam-Kumar-Sharma>

<https://loop.frontiersin.org/people/1401922/bio>

<https://ssrn.com/author=4776870>

<https://davjalandhar.academia.edu/DrPOONAMKUMARSHARMA>

<https://drpoonamkumarsharma.academia.edu/>

[Poonam Kumar Kumar Sharma \(sciprofiles.com\)](#)

Name of referees :

1. Prof.(Dr.) Mohammad Yamin, Department of Management Information System
Faculty of Economics and Administration , King Abdulaziz University, Jaddah
Saudi Arabia
Email- yamin786@hotmail.com , Tell no. + 966502109000
2. Prof. Sharfuddin Ahmad, Department of Mathematics, Faculty of Natural
Science, Jamia Millia Islamia, Jamia Nagar, New Delhi – 110025, India.
Email - ahmad_sharfuddin@rediffmail.com , Tell no - 09990367296
3. Prof. (Dr.) I.B.S. Passi , Professor Emeritus and Honorary Professor IISER-
Mohali , Center for Advanced Study in Mathematics, Punjab University ,
Chandigarh. PIN- 160014
Email ibspassi@yahoo.co.in and passi@pu.ac.in , Tell No. 09872448638 (M)
4. Prof. (Dr.) T. D. Narang , Professor Emeritus and Honorary Professor Department
of Mathematics , Guru Nanak Dev University Amritsar, Punjab.
Email tdn@yahoo.co.in Tell No. 09815710509 (Resi) , 09815710509 (Mobile)
5. Prof. Ram Parkash. Sharma, Department of Mathematics, Himachal Pradesh
Univeristy, Shimla, India

Email id : rp.math.hpu@gmail.com , Phone Number : +91 9418497090

Mailing address :

Office:

P.G. Department of Mathematics
D.A.V. College , Jalandhar City
Punjab, India. PIN- 144008

Residence:

H.NO-19 , Arjun Nagar
Ladowali Road , Jalandhar City ,
Punjab, India. PIN - 144001.

E-mail : pksharma@davjalandhar.com , pksharma_davc@yahoo.co.in

Phone : (O) 0181-2255641 , 42 , 43
(R) 0181-2238747

Mobile : 09872006365