Curriculum Vitae

Dr. P. N. Pandey
Professor(Retd.) & Ex - Head
Department of Mathematics
University of Allahabad
Allahabad-211002

Name: Dr. Paras Nath Pandey

Date of Birth: January 1, 1952

Designation: Professor(Retd.) & Ex-Head, Department of Mathematics, University of Allahabad, Allahabad.
Founder Fellow & General Secretary, International Academy of Physical Sciences.

Mailing Address: 8/4, Bank Road, Allahabad-211002

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Academic Qualifications: M. Sc., D. Phil., D. Sc. (University of Allahabad)

Research Experience: 42 Years

No. of D. Phil. Thesis supervised: 27

No. of students working for D. Phil. degree: 02

No. of students working for Post- Doctoral Work: 01(D. S. Kothari Fellow)

No. of research papers published / accepted for publication: 139 (See Appendix A).

Teaching Experience: 38 years at the University of Allahabad (Professor since 2003).

Fields of Interest: Differential Geometry, Bio-fluid-Mechanics, Vedic Mathematics, Mathematical Modelling and Bioinformatics.

Courses Taught: Geometry, Algebra, Analysis, Vector Analysis, Linear Algebra, Mathematical Methods, Discrete Mathematics, Differential Geometry, Finsler Geometry and Trees & Graphs.

Current Membership of Faculty Board/Board of Studies/Research Degree Committees:

1. Member, Board of Studies in Mathematics, M. G. C. G. University, Chitrakoot, Satna (M. P.)

2. Member, Departmental Research Committee, Mathematics, Guru Ghasidas Central University, Bilaspur, Chhattisgarh.
3. Member, Board of Studies, Department of Mathematics & Statistics, DDU Gorakhpur University, Gorakhpur.
4. Member, Board of Studies, Mathematics, Dr. R. M. L. Avadh University, Faizabad.
5. Member, Research Degree Committee, Bundelkhand University Jhansi.
6. Member, Board of Studies, Mathematics, Kumaun University, Nainital.
7. Member, Research Degree Committee, Kumaun University, Nainital.
8. Member, Board of Studies, Mathematics, Invertis University, Bareilly.
9. Member, Faculty Board of Science, University of Allahabad.
10. Chairman, Board of Studies, Department of Mathematics, University of Allahabad.
11. Member, Board of Studies, Department of Economics, University of Allahabad, Allahabad
12. Chairman, Doctoral Programme Committee, Department of Mathematics, University of Allahabad.
13. Member, Program Committee, Centre of Bioinformatics, University of Allahabad.
14. Member, Doctoral Programme Committee, Centre of Bioinformatics, University of Allahabad.
15. Member, Doctoral Programme Committee, Department of Statistics, University of Allahabad.
16. Member, Board of Studies, Center of Material Science, University of Allahabad.

Member Academic Bodies in Past:

Member, Academic Council, University of Allahabad

Member, Faculty Board of Science, University of Allahabad

Member, Faculty Board of Arts, University of Allahabad

Member, Board of Studies in Applied Science, University of Allahabad

Member, Board of Studies in Commerce, University of Allahabad

Member, Board of Studies in Bioinformatics, University of Allahabad

Member, Board of Studies in Mathematics, University of Allahabad

Member, Board of Studies in Mathematics, G. G. University, Bilaspur (Chhattisgarh)

Member, Board of Studies in Mathematics, M. G. C. G. University, Chitrakoot, Satna (M. P.)

Member, Board of Studies in Mathematics, Kumaun University, Nainital

Member, Research Degree Committee, Mathematics, Kumaun University, Nainital

Member, Board of Studies in Mathematics, Dr. R. M. L. Avadh University, Faizabad

Member, Research Degree Committee, Mathematics, C. C. S. University, Meerut

Expert Member, Research Degree Committee, Mathematics, Dr. Hari Singh Gaur Vishvavidyalaya, Sagar (M. P.)

Member, Research Degree Committee, Department of Mathematics, Rani Durgawati University, Jabalpur, M. P.

Member, Research Degree Committee, Department of Mathematics, Bundelkhand University, Jhansi.
Member, Research Degree Committee, A.P.S. University, Rewa.

Membership of Learned Societies

Life Member, Vigyan Parishad, Allahabad.

Life Member, International Academy of Physical Sciences.

Life Member, Tensor Society, Lucknow.

Life Member, Ganita Parishad, Lucknow.

Life Member, Allahabad Mathematical Association.

Life Member, Indian Society of Mathematical Modeling & Computer Simulation, Kanpur.

Participation in Selection Process

1. Chairman, Judges Committee (Math Section) at XVI M. P. Young Scientist Congress, Chitrakoot, during March 25-26, 2002.

2. Chairman, Judges Committee (Math Section) at Chhattisgarh Young Scientist Congress, Bilaspur, during Febuary 29-30, 2016.

3. Member, Selection Committees of Different Recruitment Bodies.

Administrative Experience:

Sl. No.	Positions Held	Years	
		From	*To*

(a). University of Allahabad

Sl. No.	Positions Held	From	To
1.	Assistant Proctor	1983	1984
2.	President, Allahpur Delegacy Circle	1985	1986
3.	Programme Officer, N.S.S.	1985	1989
4.	Treasurer, N.S.S.	1987	1989
5.	Superintendent, S.S.L. Hostel	1986	1990
6.	Member, Board of Trustee, A.U.U.	1987	1988

(Worked as Chairman, Board of Trustee of Allahabad University Union during 'Shatrashmi' Programme organized to mark the Centenary of the University of Allahabad)

Sl. No.	Positions Held	From	To
7.	Chairman, Postgraduate Admission Committee for Mathematics	1998	2000
8.	Chairman, B.A. I Admission Committee	2001	2003
9.	Vice-President, Allahabad University Teachers Association (Unanimously elected)	2003	2004
10.	Head, Department of Mathematics, University of Allahabad	Dec.14, 2013	Dec.14, 2015
11.	Warden S.S.L. Hostel	2015	2016
12.	Head, Department of Mathematics, University of Allahabad	July 29, 2016	Dec. 31, 2016

(b). Academy / Association / Society

Sl. No.	Positions Held	From	To
1	General Secretary, International Academy of Physical Sciences, Allahabad	1994	Till date
2	Vice – President, Allahabad Mathematical Association, Allahabad	2004	Till date

3. Member, Executive Council, Tensor Society   2009   Till date
   Lucknow

Award lectures/Key Note addresses/Inaugural Addresses:

1. Dr. Snehlata Nigam Memorial Lecture on "Why Mathematics? ", Vijnana Parishad, Allahabad on September 22, 2017.

2. Distinguished Service Award Lecture in 17th National Conference of Vijnana Parishad of India at Govt. Digvijay P.G. College, Rajnand Gaon, Chhattisgarh during February 20-21, 2014.

3. Key note address in national conference on'Applications of Mathematics in Science, Technology and Management' at Shri Ram Murti Smarak College of Engg. and Tech., Bareilly during January 24-25, 2014.

4. Srinivas Ramanujan Birth Centenary lecture, APS University Rewa, December 2013.

5. Key note address in national conference of Mathematics, Magadh University, Bodhgaya, Bihar, November 06, 2012.

6. Dr. Gorakh Prasad memorial award lecture, Vigyan Parishad, Allahabad, September 25, 2012.

7. Key note address in national seminar on Challenges and Problems in Mathematics Teaching and Applications to other Subjects, RPS College, Chakeyaj, Mahnar, Vaishali, Bihar, April 14, 2012.

8. Prof. R. S. Mishra Memorial Award Lecture, SVNIT, Surat, December 24, 2011.

9. Inaugural Address in National Conference of Rajasthan Ganita Parishad, Jaipur, January 18-19, 2008.

10. Inaugural Address in 23rd Annual Conference of the Mathematical Society of Banaras Hindu University, Varanasi, December 29-30, 2007.

11. Indian Mathematical Society sponsored Award Lecture on Basic Concepts of Geometry, Dept. of Mathematics, University of Jammu, Jammu, May 04, 2006.

Lectures delivered at Universities / Institutes / Conferences / Workshops/Refresher Courses in India and Abroad (1996-2017):

1. 21st International Conference of International Academy of Physical Sciences (CONIAPS XXI), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, October 28-30, 2017

2. Historical development of geometry, 20th International Conference of International Academy of Physical Sciences (CONIAPS XX), Osmania University, Hyderabad, July 14-16, 2017.

3. Recurrence and Decomposability of Tensors, 19th International Conference of International Academy of Physical Sciences (CONIAPS XIX), Kumaun University, Nainital, October 17-19, 2016.

4. On infinitesimal transformations in a Finsler space, International Conference on Recent Advances in Mathematics and their Applications (ICRAMTA-2016) at Department of Mathematics, University

   of Rajasthan, Jaipur, July 10-12, 2016.

5. Why Mathematics, Inspire Program(April 19-23, 2016), Invertis University, Bareilly, April

   19, 2016.

6. Geometry from Thales to Archimedes, Bilasa Girls P.G. College, Bilaspur, Chhattisgarh, Feb 29, 2016.

7. Mathematics: Why and How? , Guru Ghasidas Central University, Bilaspur, Chhattisgarh, March 1, 2016.

8. International Conference of International Academy of Physical Sciences (CONIAPS XVIII), University of Allahabad, Allahabad, December, 22- 24, 2015.

9. Madan Mohan Malviya Technical University, Gorakhpur, December, 18, 2015.

10. Special Lecture on Historical Development of Geometry, JECRC University, Jaipur, July 24, 2015.

11. International Conference on Recent Trends in Mathematics (ICRTM 2015), Department of Mathematics, University of Allahabad, Allahabad, 10-12 July, 2015.

12. International Conference of International Academy of Physical Sciences (CONIAPS XVII), University of Rajasthan, Jaipur, January 16-18, 2015.

13. National Conference on Differential Geometry and its Applications (DGACON 2014) at Department of Mathematics, University of Allahabad, Allahabad, December 26-27, 2014.

14. Workshop on Mathematics- Celebrating National Mathematics Day at NASI, Allahabad, Dec 22-23, 2014.

15. National Conference on Applications of Mathematics in Engineering and Sciences (AMES) at the Department of Mathematics, Motilal Nehru National Institute of Technology, Allahabad, November 29-30, 2014.

16. National Seminar on Recent Advances in Applied Mathematics (NSRAAM and PDVML- 2014) at Department of Mathematics, University of Rajasthan, Jaipur, September 13-14, 2014.

17. National conference on Advances in Geometry, Analysis and Fluid Mechanics (NCAGF- 2014) at Kuvempu University, Shimoga (Karnataka) during August 26-27, 2014.

18. Four lectures on Geometry and Tonsorial Applications, in Refresher Course at Academic Staff College, University of Lucknow, February 16, 2014.

19. Pre-convocation lecture, Faculty of Science, DDU Gorakhpur University, December 30, 2013.

20. International Conference on Differential Geometry and Relativity (ICDGR-2013) of the Tensor Society at DDU Gorakhpur University, Gorakhpur during November 09-11, 2013.

21. First UP Science congress, DDU Gorakhpur University, Gorakhpur, March 03, 2013.

22. 15th International Conference of International Academy of Physical Sciences, Rajamangala University of Technology Thanyaburi, Thailand, December 9-13, 2012.

23. 14th International conference of the International Academy of Physical Sciences at SVNIT, Surat during December 22-24, 2011.

24. 4th Annual Conference of the Tensor Society at SRMGPC, Lucknow during October 8-9, 2011.

25. Refresher Course, Department of Mathematics, DDU Gorakhpur University, Gorakhpur during August 27, 2011.

26. National Seminar on Recent Trends in Fluid Dynamics & Optimization Techniques, Department of Mathematics, University of Rajasthan, Jaipur during August 6-7, 2011.

27. CONIAPS-XIII at University of Petroleum and Energy Studies, Dehradun, during June 14-16, 2011.

28. International Colloquiom on History of Mathematical Sciences, Kumaun University, SSJ campus, Almora, during May 16-19, 2011.

29. National Symposium on Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Sciences, Lucknow University, Lucknow, during January 15-16, 2011.

30. International Conference organized by Pushpa Publishing House, Allahabad, December 31, 2010-January 4, 2011.

31. 12th International Conference of International Academy of Physical Sciences (CONIAPS XII), University of Rajasthan, Jaipur, December 22-24, 2010.

32. National Seminar on Current Trends in Mathematics with special focus on operation research and computers, Dr. R. M. L. Avadh University, Faizabad, March 28-29, 2010.

33. CONIAPS-XI at University of Allahabad, during February 20-22, 2010.

34. National Symposium on Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Sciences, Lucknow University, Lucknow, during January 9-10, 2010.

35. International workshop on Finsler Geometry and its Applications, Institute of Mathematics, University of Debrecen, Hungary; May 24 - 29, 2009.

36. National Conference of the Tensor Society on Development of Differential Geometry, Swargashram, Rishikesh, during October 2-3, 2009.

37. National Conference on Establishing Kinship between Mathematical Sciences & Society, G. V. Y. T. PG Autonomous College, Durg (C. G.), during October 30-31, 2009.

38. CONIAPS-X at Guru Ghasidas University, Bilaspur, during January 12-14, 2008.

39. National Conference of Rajasthan Ganita Parishad, Jaipur Engg. College, Kukas, Jaipur, during January 18-19, 2008.

40. National Conference of the Tensor Society on Applications of Geometry, SRM College of Engg. & Management, Lucknow, during July 5-6, 2008.

41. National Symposium on Differential Geometry and Mathematical Modelling, Lucknow University, Lucknow, during December 24-25, 2008.

42. CONIAPS-IX at Dr. B. R. Ambedkar University, Agra, during February 3-5, 2007.

43. Geometry from Thales to Finsler, Lecture under SAP programme, Dept. of Mathematics and Astronomy, Lucknow University, Lucknow, August 24, 2007.

44. Concepts of Lie-differentiation, Lecture under SAP programme, Dept. of Mathematics and Astronomy, Lucknow University, Lucknow, August 24, 2007.

45. Six lectures on Geometry, Analysis and applications in 8th Refresher Course at Dept. of Mathematics, University of Allahabad, during Feb. 15 - March 07, 2007.

46. Finsler geometric approach for the stability of a prey-predator model, International Conference on Mathematical Modelling and Computer Simulation, The LNM Institute of Information Technology, Jaipur, Dec. 12-15, 2006.

47. On Euclidean Postulates, at Dept. of Mathematics, R.B.S. College, Agra, Dec. 11, 2006.

48. Some landmarks in the development of Geometry, Two-hour lecture delivered at Kumaun University, Nainital, which was presided over by the Hon'ble Vice-Chancellor of Kumaun University and attended by faculty members, research scholars and P.G. students of different departments of the University, November 29, 2006.

49. The concepts of Tensors, lecture delivered at Kumaun University, Nainital, November 29, 2006.

50. Basic concepts of Geometry, I.M.S. lecture at Dept. of Mathematics, University of Jammu, Jammu, May 04, 2006.

51. Six lectures on Linear Algebra in 7th Refresher Course at Dept. of Mathematics, University of Allahabad, during Jan. 20 - Feb. 09, 2005.

52. Modelling through Geometry, National workshop on Modelling, Dept. of Mathematics and Computer Applications, Bundelkhand University, Jhansi, during Jan. 27-29, 2005.

53. Six lectures on Complex Analysis and its Applications in 6th Refresher Course at Dept. of Mathematics, University of Allahabad, during Feb. 11 - March 01, 2004.

54. Six lectures on Differential Geometry and Differential Equations in 5th Refresher Course at Dept. of Mathematics, University of Allahabad during Feb. 22 - March, 2003.

55. On the Space of Colours, at the National Conference organized by R.B.S. College, Agra, during March 8-9, 2003.

56. On Tensors and their Applications, at the National Conference organized by Model Science Autonomous College, Jabalpur, during March 23-24, 2003.

57. On Euclidean Postulates in Geometry, in the Fifth Conference of International Academy of Physical Sciences organized by the Bundelkhand University, Jhansi, during April 5-7, 2002.

58. Six Lectures on Tensors and Riemannian Geometry, in the Refresher Course organized by the Department of Mathematics, University of Allahabad, during Feb. 24 - March 14, 2002.

59. On Development Journey of Geometry, Guru Ghasidas University, Bilaspur (Chhattisgarh), December 24, 2002.

60. On Finsler Geometry - An Overview, National Conference organized by Rani Durgawati University, Jabalpur, during Dec. 12-14, 2001.

61. On Geodesic Mappings in Finsler Spaces, in the Fourth Conference of International Academy of Physical Sciences organized by M.G.C.G. Vishwavidyalaya, Chitrakoot, during Feb. 25-27, 2001.

62. On Lie Derivatives and their Applications, at the Department of Mathematics, D.D.U. Gorakhpur University, Gorakhpur, August 25, 2000.

63. On Affine Motions in Finsler Spaces, in the Third Conferences of International Academy of Physical Sciences organized by the University of Allahabad, during Dec. 17-19, 1999.

64. Applications of Finsler Geometry, in the National Seminar on Applications of Mathematics in Industries and Environment organized by the Department of Mathematics, R.B.S. College, Agra, during Dec. 17-18, 1998.

65. On Certain Transformations in Finsler Spaces, in the Second Conferences of International Academy of Physical Sciences organized by Guru Ghasidas University, Bilaspur (Chhattisgarh), during Dec. 13-14, 1997.

66. On Wong's Conjecture, in the First Conference of International Academy of Physical Sciences organized by M.G. Kashi Vidyapeeth, Varanasi, during Oct. 14-15, 1996.

Conferences Organized (by self or in collaboration):

1. International Conference of International Academy of Physical Sciences (CONIAPS XXI), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, October 28- 30, 2017.

2. International Conference of International Academy of Physical Sciences (CONIAPS XX), Osmania University, Hyderabad, July 14- 16, 2017.

3. International Conference of International Academy of Physical Sciences (CONIAPS XIX), Kumaun University, Nainital, October 17- 19, 2016.

4. International Conference of International Academy of Physical Sciences (CONIAPS XVIII), University of Allahabad, Allahabad, December 22- 24, 2015.

5. International Conference on Recent Trends in Mathematics (ICRTM 2015), Department of Mathematics, University of Allahabad, Allahabad, July 10-12, 2015.

6. International Conference of International Academy of Physical Sciences (CONIAPS XVII), University of Rajasthan, Jaipur, January 16-18, 2015.

7. National Conference on Differential Geometry and its Applications (DGACON 2014), Department of Mathematics, University of Allahabad, Allahabad, December 27-28, 2014.

8. 16th International Conference of International Academy of Physical Sciences, Indian Institute of Information Technology Design and Manufacturing Jabalpur, March 20-22, 2014.

9. 15th International Conference of International Academy of Physical Sciences, Rajamangala University of Technology Thanyaburi, Thailand, December 9-13, 2012.

10. 14th International conference of the International Academy of Physical Sciences at SVNIT, Surat during December 22-24, 2011.

11. CONIAPS-XIII at University of Petroleum and Energy Studies, Dehradun, during June 14-16, 2011.

12. CONIAPS XII at University of Rajasthan, Jaipur, December 22-24, 2010.

13. CONIAPS-XI at University of Allahabad, during February 20-22, 2010.

14. CONIAPS-X at Guru Ghasidas University, Bilaspur, during January 12-14, 2008.

15. CONIAPS-IX at Dr. B. R. Ambedkar University (Agra), during Feb. 3-5, 2007.

16. CONIAPS-VIII at C. C. S. University (Meerut), during Dec.29-31, 2005.

17. CONIAPS-VII at University of Allahabad (Allahabad), during Dec. 21-23, 2004.

18. CONIAPS-VI at D. D. U. Gorakhpur University (Gorakhpur), during Feb. 6-8, 2004.

19. National Conference on Current Trends in Mathematics, at the University of Allahabad, Allahabad, during Nov. 9-10, 2002.

20. CONIAPS-V at Bundelkhand University (Jhansi), during April 7-9, 2002.

21. CONIAPS-IV at M. G. C. G. University (Chitrakoot), during Feb. 25-27, 2001.

22. 3rd Conference of International Academy of Physical Sciences, at the University of Allahabad, Allahabad, during Dec. 17-19, 1999.

23. CONIAPS-II at Guru Ghasidas University (Bilaspur), during Dec. 13-14, 1997.

24. CONIAPS-I at M. G. Kashi Vidyapeeth (Varanasi), during Oct. 14-15, 1996.

Number of Refresher Courses Organized: 3 (Last in 24 May- 13June, 2014).

Editorial Experience:

(a). Member of Editorial Board/Advisory Board of Journals:

1. Member, Editorial Board, Journal of International Academy of Physical Sciences

2. Member, Editorial Board, Bulletin of Calcutta Mathematical Society.

3. Member, Advisory Board, Chhattisgarh Journal of Science and Technology.

4. Editor, Proceedings of the third conference of International Academy of Physical Sciences, Published by International Academy of Physical Sciences, 2000.

5. Managing Editor, Special Issues 1 & 2 (2011) of JIAPS.

6. Member, Editorial Board, Journal of Tensor Society.

(b). Books written/ edited / reviewed:

1. *Polar Coordinate Geometry*, Published by Sharda Academic Publishing house, Allahabad, 2012.

2. Reviewer of the book '*Ganita Ka Itihas*', Published by State Science Education Institute, Uttar Pradesh, 2006.

3. *Amrit Kalash*, Published by the University of Allahabad, 2004/05.

4. Proceedings of the third conference of International Academy of Physical Sciences, Published by International Academy of Physical Sciences, 2000.

5. Referee for Several National and International Journals.

6. Reviewer, Mathematical Reviews.

Academic Distinctions:

1. Distinguished Service Award of Vignana Parishad of India, 2014.

2. UGC BSR Award of Rs. 7 Lakhs, 2011.

3. Founder Fellowship of International Academy of Physical Sciences.

4. U. G. C. Junior and Senior Research Fellowships.

5. Merit Scholarships from Class VI to B.Sc.

Specific Contributions:

1. Contributions to Mathematics.

2. Contributions towards dissemination of scientific knowledge.

3. Emphasis on interdisciplinary researches.

4. Contributions towards popularization of Mathematics.

5. Contributions towards Vedic Mathematics.

Appendix A
LIST OF PUBLICATIONS

1. Geometric objects recurrent in a direction and directionally recurrent Finsler spaces, AIP Conference Proceedings 1897, 020025 (2017). (Jointly with Shivalika Saxena and Suresh Kumar Shukla)

2. Hypersurfaces of a Finsler Space with Projective Generalized Kropina Conformal Change Metric, Facta Universitatis, Series: Mathematics and Informatics. Accepted for Publication. (Jointly with Akansha)

3. Quasi-conformally flat and Projectively flat Trans-Sasakian manifolds, Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis, 33(2), 2017, to appear. (Jointly with Vibha Srivastava)

4. Submersion of Semi-invarivant Submanifolds of Contact manifolds, Global Journal of Pure and Applied Mathematics (GJPAM). Accepted for Publication. (Jointly with Vibha Srivastava)

5. Complex Finsler Spaces with $(\gamma,|\beta|)$- Metric, Differential Geometry Dynamical System. Accepted for Publication. (Jointly with Sweta Kumari)

6. On a Complex Renders Space, National Academy Science Letters (NASI). Accepted for publication. (Jointly with Sweta Kumari)

7. Complex Finsler Spaces with Generalized $(\gamma,|\beta|)$ - Metric, J. Int. Acad. Phys. Sci., 20 (4), 2016. (Jointly with Sweta Kumari and Anjali Goswami).

8. Nonholonomic Frame for a Finsler Space with Special (α,β) Metric, J. Int. Acad. Phys. Sci., 20 (3), 2016. (Jointly with Akansha).

9. On Special Concircular R – Lie – Recurrence in Special Finsler Spaces, *International Journal of Pure and Applied Mathematics*, ISSN: 1311 - 8080, 113 (3), 2016, 415-423. (Jointly with Ganga Prasad Yadav).

10. On a Perfect Fluid Kahler Spacetime, *Journal of Advances in Physics*, ISSN: 2347- 3487, 12 (3), 2016, 4350- 4355. (Jointly with Vibha Srivastava).

11. On Trans – Sasakian Manifolds, *Journal of International Academy of Physical Sciences* , ISSN: 0974 - 9373, 20 (1), 2016, 27-36. (Jointly with Vibha Srivastava).

12. Generalization of Certain Results on Projective Motion in a Finsler Space, *Facta Universitatis*, Series: Mathematics and Informatics, Serbia, ISSN: 0352- 9665, 31 (1), 2016, 237- 244. (Jointly with Sweta Kumari).

13. Lagrange Spaces with Generalized (γ,β)- Metric, *Facta Universitatis*, Series: Mathematics and Informatics, Serbia, ISSN: 0352- 9665, 31 (1), 2016, 201- 212. (Jointly with Suresh Kumar Shukla and Shivalika Saxena).

14. In –Silico Screening of Schistosoma Mansoni Sirtuin 1 Inhibitors for Prioritization of Drug Candidates. *Springer Plus*, ISSN: 5:286, 2016, 1-8 (Jointly with Raghvendra Singh, Birendra Singh Yadav, Swati Singh and Ashutosh Mani).

15. A Newtonian Model on the Two Phase Renal Blood Flow in Renal Capillaries with Special Reference to Kidney Infection (UTI), *IOSR Journal of Mathematics (IOSR – JM)*, ISSN: 2278 – 5728, 11 (4), 2015, 01 – 11. (Jointly with Neelam Bajpai, V. Upadhyay and A. K. Agrawal).

16. In-silico analysis of Sirt2 from Schistosoma monsoni: Structures, Conformations and Interactions with Inhibitors, *Journal of biomolecular Structure & Dynamics*, DOI: 10.1080/07391102.2015.1065205. (Jointly with Raghvendra Singh and Swadha Singh).

17. A Finsler Space with Conservative Berwald Curvature, *J. Int. Acad. Phys. Sci.*, 19 (1), 2015, 1-8. (Jointly with Sweta Kumari).

18. Malaria Transmission and Biological Control with Human Related Activities: A Mathematical Modeling Approach, *J. Int. Acad. Phys. Sci.*, 19 (1), 2015, 35-50. (Jointly with Ritesh Pandey).

19. On a Finsler Space Subjected to a Kropina Change with an h- Vector, *Facta Universitatis*, Series: Mathematics and Informatics, Serbia, ISSN: 0352-9665, 30 (4), 2015, 513- 525. (Jointly with M. K. Gupta).

20. Kahler Manifold with a Special Type of Semi-Symmetric Non-Metric Connection, *Global Journal of Mathematics,* 7, 2015, 17- 24. (Jointly with B. B. Chaturvedi).

21. A Non- Newtonian Mathematical Model on the Two Phase Renal Mean Blood Flow in Renal Arterioles with Special Reference to Kidney Infection (UTI), *Certified International Journal of Engineering and Innovative Technology (IJEIT)*, ISSN: 2277 – 3754, 4 (5), 2014, 104 - 111. (Jointly with Neelam Bajpai, V. Upadhyay and A. K. Agrawal).

22. A Special Projective Motion in a Finsler Spcae, *J. Int. Acad. Phys. Sci.*, 18 (3), 2014, 207- 212. (Jointly with Ganga Prasad Yadav).

23. Some Properties of a Finsler Space with the Metric $L(x,y)=\gamma(x,y)\phi\left(\dfrac{\beta}{\gamma}\right)$, *J. Int. Acad. Phy. Sci.*, 18(2), 2014, 141- 150. (Jointly with Shivalika Saxena and Suresh K. Shukla).

24. On a Special Concircular Lie-Recurrence in a Finsler space*, International Journal of Pure and Applied Mathematics*, 92 (3), 2014, 359-367. (Jointly with Vaishali Pandey).

25. Molecular Docking and Molecular Dynamics Study on SmHDAC1 to Identify Potential Lead Components against Schistosomiasis, *Journal of Molecular Biology Report*, 42(3), 2014, 689-698. (Jointly with Raghvendra Singh).

26. Mathematical Model for Malaria Transmission and Biological Control, *Journal of Tensor Society*, 8(2), 2014, 159- 173 (Jointly with Ritesh Pandey and R. N. Singh).

27. Phylogenetic Analysis of Gammaproteobacterial Arsenate Reductase Proteins Specific to Enterobacteriaceae Family, Signifying Arsenic Toxicity*, Interdisciplinary Sciences: Computational Life Sciences*, 6(1), 2014, 57- 62. (Jointly with Navneet Chaturvedi).

28. In Silico Analysis of Cis-acting Elements of Histone Deacetylase (HDAC) gene Family of Homo sapiens & Mus musculus, *International Journal of Pharmaceutical Science Invention*, 3(9), 2014, 12-21. (Jointly with Raghvendra Singh and Swati Singh).

29. A Non- Newtonian Mathematical Model on the Two Phase Renal Diastolic Blood Flow in Renal Arterioles with Special Reference to Kidney Infection (UTI), *International Journal of Scientific and Engineering Research (IJEIT)*, ISSN: 2229 – 5518, 4 (1), 2013. (Jointly with Neelam Bajpai, V. Upadhyay and A. K. Agrawal).

30. A Non- Newtonian Model on Two Phase Renal Mean Blood Flow Remote from the Heart and Proximate to the Kidney Along Arterioles on with special reference to kidney infection (UTI), *International Journal of Advance Research (IJOAR)*, ISSN: 2320 – 9143, 1 (4), 2013. (Jointly with Neelam Bajpai, V. Upadhyay and A. K. Agrawal).

31. Some Results in a Kahler Manifold Eqipped with a Semi- symmetric Non-Metric Connection, *Jour. Pure Math.*, 29 & 30, 2013, 14- 20. (Jointly with B. B. Chaturvedi).

32. On Hypersurface of a Finsler space with an exponential (α, β) metric, *Jour. Pure Math.*, 29 & 30, 2013, 33-46. (Jointly with M. K. Gupta and Vaishali Pandey).

33. Mathematical Model for Malaria Transmission and Chemical Control, *J. Int. Acad. Phys. Sci.*, 17(4), 2013, 409-418. (Jointly with Ritesh Pandey and R. N. Singh).

34. On Semi - Symmetric Projective Connection, *Mathematical Theory and Modeling*, ISSN 2224-5804 (Paper) ISSN 2225-0522 (Online), 3(6), 2013. (Jointly with Abhay Singh).

35. In-Silico Analysis of Tghdac3 (Transcription Regulator) as Drug Target in Toxoplasma gondii, *J. Int. Acad. Phys. Sci.*, 17(4), 2013, 409-418. (Jointly with Raghvendra Singh).

36. On K-Lie-recurrence in a Finsler space, *South Asian Journal of Mathematics*, 3(6), 2013, 402-410. (Jointly with Vaishali Pandey).

37. On special concircular K-Lie-recurrence in special Finsler spaces, South Asian Journal of Mathematics, 4 (1), 2013, 28 -34. (Jointly with Vaishali Pandey and Shivalika Saxena).

38. On a Hypersurface of a Finsler Space with Randers Change of Matsumoto Metric, *Geometry*, 2013, Article ID 842573, 6 pages, 2013. doi:10.1155/2013/842573. (Jointly with M. K. Gupta and Abhay Singh).

39. On an R-Randers mth-root Space, *Geometry*, 2013, Article ID 649168, 7 pages, 2013. doi:10.1155/2013/649168 (Jointly with Shivalika Saxena)

40. Lagrange Spaces with (γ, β)-metric, *Geometry,* 2013, Article ID 106393, 7 pages, 2013. doi:10.1155/2013/106393 (Jointly with Suresh K. Shukla).

41. Rheonomic Lagrange Spaces with (α, β)-metric, *International Journal of Pure and Applied Mathematics,* 83(3), 2013, 425- 438, doi:10.12732/ijpam, v83i3.5. (Jointly with Suresh K. Shukla and Anjali Goswami).

42. Computational identification and analysis of arsenate reductase protein in Cronobacter sakazakii ATCC BAA-894 suggests potential microorganism for reducing arsenate: *Journal of Structural and Functional Genomics*, 14(2), 2013, 37- 45. (Jointly with Navaneet Chaturvedi & Vinay Kumar Singh).

43. A Mathematical Model on the Two Phase Renal Systolic Blood Flow in Renal Arterioles with Special Reference to Kidney infection (UTI), *International Journal of Engineering Research and Development (IJEIT)*, ISSN: 2278 – 067X, 5 (5), 2012. (Jointly with Neelam Bajpai, V. Upadhyay and A. K. Agrawal).

44. Computational Protein Structure Modeling and Analysis of UV- B Stress Protein in Synechocystis PCC6803, *Bioinformation*, 9(12), 2013, 639 – 644 (Jointly with Md Akhlaqur Rahman, Navaneet Chaturvedi, Sukrat Sinha, Dwijendra Kumar Gupta, Shanthy Sundaram and Ashutosh Tripathi).

45. On Subspaces of an Almost φ-Lagrange Space, *International Journal of Mathematics and Mathematical Sciences,* 2012, Article ID 981059, 14 pages, 2012. doi:10.1155/2012/981059. (Jointly with Suresh K. Shukla).

46. On Projective Lie-recurrence in a Finsler space, *Acta. Math. Hungar*, 136(1-2), 2012, 30-38, DOI: 10.1007/s10474-011-0184-1. (Jointly with Shivalika Saxena).

47. Elman RNN based classification of protein sequences on account of their mutual information, *Journal of Theoretical Biology*, 311, 2012, 40-45 (Jointly with Pooja Mishra).

48. Projective Motion in Special Finsler Spaces. *Afr. Diaspora J. Math*. 13 (2), 2012, 74-80. (Jointly with Suresh K. Shukla).

49. A Generalized Mathematical Study of Two Phase Pulmonary Blood Flow in Lungs with Special Reference to Asthma, *IOSR Journal of Mathematics*, 1(6), 2012, 1-6. (Jointly with Manoj Kr. Srivastava, V. Upadhyay, A.K. Agrawal).

50. Torse-Forming Projective Motion in an NP-Fn, *Journal of Tensor Society*, 6(1), 2012, 105-116 (Jointly with Shivalika Saxena and Suresh K. Shukla).

51. On Hypersurfaces of a Recurrent Finsler Space, *J. Int. Acad. Phys. Sci*., 15,

Special issue 1, 2011, 33-45. (Jointly with Suresh K. Shukla).

52. Existence of a fixed point theorem in a Hilbert space, *J. Nat. Acad. Math.*, 25, 2011, 81-85 (Jointly with Arun K. Chaubey and D. P. Sahu).

53. On a Generalized H-recurrent Finsler Space, *J. Int. Acad. Phys. Sci.*, 15, Special issue 1, 2011, 201-211. (Jointly with Shivalika Saxena and Anjali Goswami).

54. Recursive neural networks for predicting protein folds from their Pseudo Amino Acid compositions, *Adv. Sci. Lett.*, 11, 2012, 63-66. (Jointly with Pooja Mishra).

55. In Silico Genome Analysis of Gamma proteobacteria with Reference to Metal Binding Sites, *J. Int. Acad. Phys. Sci.*, 15, Special issue 2, 2011, 501-506. (Jointly with Navaneet Chaturvedi).

56. Recursive Neural Networks Based Recognition of Protein Folds on Account of Residue Correlation within Protein Sequences, *J. Int. Acad. Phys. Sci.*, 15, Special issue 2, 2011, 515-524 (Jointly with Pooja Mishra)

57. On Almost φ-Lagrange Spaces, *ISRN Geometry*, vol. 2011, Article ID 505161, 16 pages, 2011. doi: 10.5402/2011/505161. (Jointly with Suresh K. Shukla).

58. Hidden Markov Model for the Prediction of Transmembrane Proteins using MATLAB, *Bioinformation*, 7(8), 2011, 418-421. (Jointly with Navaneet Chaturvedi, Sudhanshu Shanker, Vinay Kumar Singh and Dhiraj Sinha).

59. A Graph-Based Clustering of protein sequences, *Bioinformation,* 6(10), 2011, 372-374 (Jointly with Pooja Mishra).

60. On Lie-recurrence in a Finsler Space, *Differential Geometry – Dynamical Systems*, 13, 2011, 201-207. (Jointly with Shivalika Saxena).

61. On C-conformal change in a Finsler Space, *J. Int. Acad. Phy. Sci.*, 14(4), 2010, 385-397 (Jointly with Abhay Singh and M. K. Gupta).

62. On S-3 Like Four-Dimensional Finsler Spaces, *Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis*, 26, 2010, 305-312 (Jointly with M. K. Gupta).

63. A Note on Affine Motion in a Bi-recurrent Finsler Space, *Journal of Tensor Society*, 4, 2010, 93-101 (jointly with Suresh K. Shukla).

64. Hypersurfaces of conformally and h-conformally related Finsler space, *Acta Math. Hungar.*, 123(3), 2009, 257-264 (jointly with M. K. Gupta).

65. Riemannian Manifold with a Special Type of Semi-symmetric Non-metric Connection, *J. Int. Acad. Phy. Sci.*, 13(3), 2009, 253-259 (Jointly with B. B. Chaturvedi).

66. On Subspaces of a Finsler Space with Randers Conformal Metric, *J. Int.*

Acad. Phy. Sci., 13(4), 2009, 351-357 (Jointly with M. K. Gupta).

67. On $\tilde{K}$ -Curvature Inheritance in a Finsler Space, *J. Inter. Acad. Phy. Sci.*, 13(4), 2009, 395-400 (Jointly with Vaishali Pandey).

68. On hypersurface of a Finsler space with Randers conformal metric, *Tensor N.S.*, 70(3), 2008, 229-240 (Jointly with M. K. Gupta).

69. Relations between the main scalars of a four-dimensional Finsler space and its hypersurface, *Differential Geometry – Dynamical Systems*, 10, 2008, 132-138 (jointly with M. K. Gupta).

70. On a projective mapping and Berwald h-recurrent Finsler connection, *Tensor N. S.,* 70(1), 2008, 63-69 (jointly with M. K. Gupta).

71. On Hypersurface of a Finsler space with a special metric, *Acta. Math. Hungar.*, 120, 2008, 165-177 (jointly with M. K. Gupta).

72. On a four dimensional Finsler space of scalar curvature, *Bull. Cal. Math. Soc.*, 100(3), 2008, 327-336 (jointly with M. K. Gupta).

73. On a four-dimensional Berwald space with vanishing v-connection vector k_i, *Tamkang J. Math*. 39-2, 2008, 121-130 (jointly with M. K. Gupta).

74. On subspaces of a Finsler space with a special metric, *Bull. Alld. Math. Soc*., 23-2, 2008, 263-272 (jointly with M. K. Gupta).

75. Semi-symmetric non-metric connections on a Kähler manifold, *Differential Geometry - Dynamical Systems*, 10, 2008, 86-90 (jointly with B. B. Chaturvedi).

76. Recurrences with respect to semi-symmetric metric connection on an almost Hermite Manifold, *Proc. Nat. Acad. Sci. India*, 78, 2008, 137-143 (jointly with B. B. Chaturvedi).

77. Semi-Symmetric Metric Connection on a 4-Dimensional Almost Hermitian Manifold of Pointwise Constant Anti-Holomorphic Sectional Curvature, *Bull. Calcutta Mathematical Society*, 100-4, 2008, 401-410 (jointly with B. B. Chaturvedi).

78. A generalization of Hahn-Banach extension theorem for K-quasi affine set-valued map, *J. Nat. Acad. Math*., 22, 2008, 124-134 (jointly with P. C. Srivastava)

79. Almost Hermitian manifold with semi-symmetric recurrent connection, *J. Int. Acad. Phys. Sci.*, 10, 2006, 69-74 (jointly with B. B. Chaturvedi).

80. Second order parallel tensor on a hyperbolic RAC manifold of constant sectional curvature, *Chh. J. Sci. Tech*., 3&4, 2006,2007, 99-106 (jointly with Sushil Shukla).

81. Recurrent and torse-forming projective motions in a Finsler space, *Proc. Nat. Acad. Sci., India*, 77A, 2007, 247-254 (jointly with Manish K. Gupta

and Abhay Singh).

82. Semi Symmetric Metric Connection on Kaehler Manifold, *Bulletin of the Allahabad Mathematical Society*, 22, 2007, 51-57 (jointly with B. B. Chaturvedi).

83. On a four-dimensional Finsler space with vanishing v-connection vectors, *J. Int. Acad. Phys. Sci*., 10, 2006, 1-7 (jointly with M. K. Gupta).

84. Curvature tensor in Trans-Sasakian manifolds, *J. Tensor Soc. India*, 23, 2005, 19-34 (jointly with Sudhir Kumar Dubey).

85. Ricci parallel Trans-Sasakian manifolds, *J. Int. Acad. Phys. Sci*., 9, 2005, 113-120 (jointly with Sudhir Kumar Dubey).

86. The family of asteroids as geodesics in two dimensional Finsler space, *J. Int. Acad. Phys. Sci*., 9, 2005, 19-25 (jointly with P. K. Srivastava).

87. Certain types of Finsler spaces of dimension four, *J. Int. Acad. Phys. Sci*., 8, 2004, 17-23 (jointly with Manish K. Gupta).

88. Almost Grayan manifold admitting semi-symmetric metric connection, *Tensor N. S.*, 65, 2004, 143-152 (jointly with Sudhir Kumar Dubey).

89. Second order parallel tensor on a Sasakian manifold, *Tensor N. S.*, 65, 2004, 153-161 (jointly with Sudhir Kumar Dubey).

90. Curvature tensor on Riemannian manifold admitting semi-symmetric metric connection, *J. Tensor Soc. India*, 22, 2004, 39-50 (jointly with Sudhir Kumar Dubey).

91. Hypersurface of a recurrent Finsler space, *J. Int. Acad. Phy. Sci*., 7, 2003, 9-18 (Jointly with Sunita Pal).

92. Generalized normalized semi-parallel h-vector field in special Finsler spaces, *J. Int. Acad. Phy. Sci*., 6, 2002, 95-102 (jointly with Fahmi Yaseen Abdo & Sunita Pal).

93. Semi-Concircular vector fields in a Finsler space, *J. Int. Acad. Phy. Sci*., 5, 2001, 15-25 (jointly with Fahmi Yaseen Abdo).

94. On C -Concircularly flat and *P-Finsler spaces, *J. Int. Acad. Phys. Sci*., 4, 2000, 1-4 (Jointly with Reema Verma).

95. On Curvature Collineation in an NP-Finsler space, *Proceedings of the Third Conference of International Academy of Physical Sciences* 1999/2000, 201-213 (jointly with V. J. Dwivedi).

96. Newtonian Model of Two-phase Pulsatile Blood Flow in Aorta and Arteries Proximate to the Heart, *Proceedings of the Third Conference of International Academy of Physical Sciences* 1999/2000, 235-242 (jointly with Virendra Upadhyay).

97. Certain Types of Affine Motions, *Proceedings of the Third Conference of*

International Academy of Physical Sciences 1999/2000, 249-264 (jointly with Fahmi Yaseen Abdo and Sunita Pal).

98. A Power Law Model of Two-Phase Blood flow in Arteries Remote from the Heart, *Proceedings of the Third Conference of International Academy of Physical Sciences* 1999/2000, 325-330 (jointly with Virendra Upadhyay).

99. On R^h-recurrent Finsler spaces, *J. Int. Acad. Phy. Sci.*, 3, 1999, 11-26 (jointly with Reema Verma).

100. On C^h-birecurrent Finsler spaces, *J. Int. Acad. Phys. Sci.*, 2, 1998, 43-50 (jointly with Reema Verma).

101. On *P- and P- reducible Finsler spaces of recurrent curvature, *J. Int. Acad, Phys. Sci.*, 2, 1998, 11-17 (jointly with Shalini Dikshit).

102. Infinitesimal affine motions in a Finsler space equipped with E. Cartan's connection, *J. Int. Acad. Phys. Sci.*, 1(1-2), 1997, 39-54 (jointly with Reema Verma).

103. On projective transformations between special Finsler spaces, *J. Int. Acad. Phys. Sci.* 1(3-4), 1997, 183-193 (jointly with Reema Verma).

104. On decomposability of curvature tensor of a Finsler manifold II, *Proc. Nat. Acad. Sci.*. 58A, 1988, 85-88.

105. Certain types of affine motion in a Finsler manifold III, *Colloquium Mathematicum*. 56(2), 1988, 133-140.

106. Affine motion in a T-recurrent Finsler manifold, *Proc. Nat. Acad. Sci.*, 57A, 1987, 438-446 (jointly with V.J. Dwivedi).

107. Certain types of affine motions in a Finsler manifold II, *Colloquium Mathematicum*, 53(2), 1987, 63-70.

108. On T-recurrent Finsler spaces, *Progress of Mathematics*, 21 (2), 1987, 101-112 (jointly with V.J. Dwivedi).

109. Non-existence of certain types of NP-Finsler spaces, *Acta. Math. Hungar.*, 50(1-2), 1987, 79-84.

110. Projective motion in an RNP-Finsler space, *Tamkang J. Math.*, 17(1), 1986, 87-98 (jointly with V.J. Dwivedi).

111. Certain types of projective motion in a Finsler manifold II, *Atti. Accad. Sci. Torino*, 120, 1986, 168-178.

112. On birecurrent affine motion in a Finsler manifold, *Acta. Math. Hungar.* 45(3-4), 1985, 251-260.

113. A recurrent Finsler manifold with a torse-forming vector field, *Atti Accad. Sci. Torino*, 119, 1985, 100-106.

114. A symmetric Finsler manifold with a concircu1ar vector field, *Proc. Nat. Acad. Sci. (India)*, 54(3), 1984, 271-273.

115. On some Finsler spaces of scalar curvature, *Progress of Mathematics*, 18,1984, 41.

116. Projective motion in a symmetric and projectively symmetric Finsler manifold, *Proc. Nat. Acad. Sci. (India)*, 54(3), 1984, 274-278.

117. On Wong's conjecture, *Progress of Mathematics*, 18 (1984), 89-94.

118. Certain types of affine motions in a Finsler manifold, *Colloquium Mathematicum*, 49(2), 1984, 93-102.

119. Certain types of projective motions in a Finsler manifold, *Atti Accad. Peloritana Pericolanti Cl. Sci. Fis. Math. Natur.*, 60, 1983, 287-300.

120. On a Finsler space of zero projective curvature, *Acta Math. Acad. Sci. Hungar.*, 39(4), 1982, 387388.

121. On Lie recurrent Finsler manifold, *Indian J. Math.*, 24, 1982, 135-143.

122. On decomposability of curvature tensor of a Finsler manifold, *Acta Math. Acad. Sci. Hungar.*, 38, 1981, 109-116.

123. A note on recurrence vector, *Proc. Nat. Acad. Sci. (India)*, 51A, 1981, 6-8.

124. Projective recurrent Finsler manifolds, *Publications Mathematicae Debrecen*, 28(3-4), 1981, 191-198 (jointly with R. B. Misra).

125. Some identities in an NPR-Finsler manifold, *Proc. Nat. Acad. Sci. (India),* 51, 1981, 185-189.

126. A recurrent Finsler manifold with a concircular vector field, *Acta. Math. Acad. Sci. Hungar.*, 35(34), 1980, 465-466.

127. Affine motion in a recurrent Finsler manifold, *Ann. Fac. Sci. Kinsasha*, 6(1-2), 1980, 51-63.

128. On NPR-Finsler manifolds, *Ann. Fac. Sci. Kinsasha*, 6(1-2), 1980, 65-77.

129. Decomposition of curvature tensor in a recurrent Finsler manifold, *Tamkang J. Math.*, 10, 1979, 31-34.

130. A recurrent Finsler manifold admitting special recurrent transformations, *Progress of Mathematics*, 13, 1979, 85-98.

131. Conformal covariant derivative in a Finsler manifold II, *Univ. Nac. Tucuman Rev. Ser. A*, 27(12), 1978, 325-333.

132. CA-collineation in a birecurrent Finsler manifold, *Tamkang J. Math.*, 9, 1978, 79-81.

133. Groups of conformal transformations in conformally related Finsler manifolds, *Atti Accad. Nat. Lincei Rendi.*, 65, 1978, 269-274.

134. Conformed covariant operator in a Finsler manifold, *University of Allahabad Studies (N. S.)*, 10, 1978, 91-98.

135. Conformal covariant derivative in a Finsler manifold, *Atti Accad. Sci. Lett. Arti. Polermo Parte I*, (4) 37, 1977, 341- 350.

136. Projective motion in an SNP-Fn, *Boll. U. M. I.*, l4-A, 1977, 513-519 (jointly with R. B. Misra and Nawal Kishore).

137. Contra projective motion in a Finsler manifold, *Math. Education*, 11(2), 1977, 25-29.

138. On bisymmetric Finsler manifolds, *Math. Education*, 11(4), 1977, 77-80.

139. Normal projective curvature tensor in a conformal Finsler manifold, *Proc. Nat. Acad. Sci. (India)*, 47 A, 1977, 115-118 (jointly with V. J. Dwivedi).