

Curriculum-Vitae

Name : DR. CHAYAN KUMAR MISHRA

Designation : HEAD and Associate Professor

Father's Name : Late Shri Chinta Mani Mishra

Date of Birth : 08-12-1966

Place of Birth : Village & P.O-Bichhi, Distt-Sidhi (M.P.)

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Dr. Ram Manohar Lohia Avadh University
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Present : Deptt. of Mathematics & Statistics
Dr. Ram Manohar Lohia Avadh University
Faizabad-224001(U.P.) India

Nationality : Indian

Marital Status : Married

Academic Qualifications :

(1) Ph.D. : Department of Mathematics and Statistics, A.P.S. University, Rewa (M.P.)India, (1993).
(Title of Ph.D. Thesis: *Groups of transformations in some Special Finslerian structures*)

(2) M.Sc. : (Mathematics) Department of Mathematics and Statistics, A.P.S. University, Rewa (M.P.) India (1988), (Area of Specialization: *Differential Geometry, Riemannian Geometry, Finsler Geometry, Spherical Harmonics*).

(3) B.Sc. : S.G.P.G. college, Sidhi (M.P.) A.P.S. University, Rewa (M.P.) India (1986).

Professional Career:

1. **Chairman (Head)** Department of Mathematics and Statistics, Dr. R. M. L. Avadh University, Faizabad-224001(U.P.) India (29-Jan, 2010 to 28 Jan. 2013).
2. **Reader** (Associate Professor), Department of Mathematics and Statistics, Dr. R. M. L. Avadh University, Faizabad-224001(U.P.) India (20-Sept.2000 to date).
3. **Senior Lecturer**, Department of Mathematics and Statistics, Dr. R.M.L. Avadh University, Faizabad-224001(U.P.) India (20-Sept.1996-20-Sept. 2000).
4. **Lecturer**, Department of Mathematics and Statistics, Dr. R.M.L. Avadh University, Faizabad-224001(U.P.) India (20-Sept.1991-20-Sept. 1996).
5. **Part-time Lecturer**, Department of Mathematics and Statistics, A.P.S. University, Rewa (M.P.) India (1988-1089).
6. **Appointment received:** I was appointed **Senior Lecturer** for three year in Department of Mathematics and Computer Science, **THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY**, Lea, Papua New Guinea.(30 Nov. 2007 to Nov. 2010).

Research Field:

- **Differential Geometry, Finsler Geometry, Riemannian Geometry Mathematical Physics.**

Ph. D. Supervision:

Two candidates have been awarded Ph. D. degrees under my supervision and Two candidates registered for Ph.D. Degrees under my supervision.

Teaching Experience : 17 years +

Course Taught :

- **Post Graduate Level-Topology, Functional Analysis, Mathematical Analysis, Riemannian Geometry, Finsler Geometry.**
- **Graduate Level - Statics, Dynamics, Analytical Geometry (of two and three Dimension), Vector Algebra and Calculus (1994-1996).**

Details of publications and research work:

- (i) **Published Books** :Differential Calculus, Linear Algebra and Analytical Geometry.
- (ii) **Published research paper in national and International Journals: 16**

LIST OF PAPER PUBLISHED:

1. Torsion-forming Projective N-Curvature Collineation in NP-Fn, ADJM, Volume 10, Number 1, pp. 39–48 (2010).
2. Special Types of Projective Motions in a Projective Finsler Space, JIAPS, Vol.13,no-3,(2009),279-291.
3. Decomposition of Weyl curvature tensor field in recurrent Finsler space, accepted for publication in IJMSEA. Volume 3, No.II/III/IV, 2009.
4. On C^h -Recurrent and C^v -Recurrent Finsler spaces of second Order, Int. J. Contemp. Math. Sciences, Vol. 3, 2008, no. 17, 801-810.
5. On decomposability of the curvature tensor in recurrent conformal Finsler spaces, Differential Geometry-Dynamical Systems, Vol.10, 2008, pp. 235-242.
6. On decomposition of Projective curvature in Projective recurrent Conformal Finsler Space. Mathematics Scientific Journal (MSJ) Vol., No.1, SN.8 (2008) pp.49-63.
7. Projective Curvature inheritance in an NP-Fn, Differential geometry-Dynamical Systems Vol.9, 2007, pp. 111-121.
8. Normal projective Finsler space and recurrent normal projective Finsler space with special Finsler space with special vector field, Vikram Mathematical Journal Vol.-25, 166-179 (2005).
9. On special Finsler spaces with Landsberg space, Acta. Cincia. Indica, Vol. XXM, No.-3 (2004), 605-608.
10. Torsion-Forming Infinitesimal Transformations in Finsler space, Tensor N.S. Vol. 65 (2004), 1-7.
11. CA-Motion in WRF_n, VIJNANA PARISHAD ANUSANDHAN PATRIKA, Vol. 46, No.-2, 2003 PP-165-170.
12. Infinitesimal Deformation of Curves in Finsler Space, VIJNANA PARISHAD ANUSANDHAN PATRIKA, Vol. 44, No.-2, pp-117-124 (2002).
13. Metric like P- Tensor field in A Finsler Space, Vikram Mathematical Journal Vol.- 22, 41-47 (2002).
14. On the Infinitesimally Deformed Finsler Space, Jnanabha Vol.26, (1996) PP. 87-91.
15. CNA-Motion in PS-Fn, ICTP Internal report, 1989, IC/89/420, Trieste, Italy and Journal of Purvanchal Academy of Sciences, Vol. 3-1992pp. 29-33.
16. Projective Invariants in Conformal Finsler Space-I, ICTP Internal report, 1989,

LIST OF PARPERS COMMUNICATED AND PRESENTED IN CONFERENCES :

1. A Note on Finsler geometric approach to Physical field theories, give talk in **International School on Geometry and Quantization at the University of Luxembourg, August 31 till September 5, 2009.**
2. Torse-forming curvature collineation in Finsler space (2009) (Communicated).
3. Torse-forming Projective curvature collineation in NP-Fn (2009) (communicated).
4. On decomposability of the curvature tensor in recurrent conformal Finsler Spaces, presented in Xth Conference of International Academy of Physical Sciences, 2008.
5. Decomposition of Weyl curvature tensor field in recurrent Finsler space Presented 71st I.M.S. Annual Conference to be held at **Department of Mathematics, I.I.T. Roorkee, Dec. 26- 29, 2005.**
6. Special transformation with projective motion in projective Finsler space, Presented International conference on **“Differential Geometry and Physics” 2005**, organized by Department of Geometry, Faculty of Science, Lorand Eolvos University, Budapest, Hungary.
7. Ricci-Curvature inheriting symmetry in Finsler Manifolds, presented 66th **IMS Conference, 1999.**
8. On infinitesimal h-conformal motions in Symmetric Finsler spaces, Presented 65th **IMS ,Conference 1999.**
9. A note on Finslerian approach to physical fields and Relevance to Gauge Theories, Presented **International Conference on Mathematical Physics (1999).**
10. Curvature inheritance symmetry in Finsler spaces with applications to Physical Fields, Presented **IIIrd International Academy of Physical Sciences Conference 1999.**
11. On Symmetric Finsler manifold admitting an affine motion -I, presented **56th IMS Conference, 1990.**
12. On decomposition of recurrent curvature tensor fields in Finsler spaces-II (Communicated).
13. On a Finsler space with bi-recurrent Cartan's first curvature. (Communicated).
14. On special bi-recurrent Finsler space with Cartan's first curvature tensor fields (Communicated).

Referring and

- (1) Mathematic Scientific Journal(MSJ)
- (2) African Diaspora Journal of Mathematics(ADJM)
- (3) Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis (AMAPN)
- (4) Balkan Journal of Geometry and its Applications(BJGA)
- (5) Differential Geometry and Dynamics System(DGDS)

Research Project : Principal investigator- Minor Research Project-UGC unassigned grant from Dr. R.M.L. Avadh University, 2001-2002.

COMPUTER KNOWLEDGE : Windows, TeX, LaTeX, AMS-TeX.

ORGANISER, CONVENER AND MEMBER OF INTERNATIONAL CONFERENCES :

1. Convener, National Seminar on “Current Trends in Mathematics with Special Focus on Operations Research and computers” 28-29 March, 2010, Organized by, Department of Mathematics & Statistics, Dr. Ram Manohar Lohia Avadh University, Faizabad – 224001 (U.P.) INDIA.
2. Member of the International Organizing Committee and scientific committee for the International Conference of Differential Geometry and Dynamical Systems” (DGDS-2009) will take place between October 8-11, 2009 at University, POLITEHNICA of Bucharest, Romania.
3. Member of the organizing Committee for the Xth International **Conference of International Academy of Physical Sciences** to be held at Department of Mathematics, G.G.DAS, University Bilaspur, India (2008).
4. Member of the organizing Committee for the IXth International **Conference of International Academy of Physical Sciences** to be held at Department of Mathematics, Dr.B. R. A. University, Agra-2007.

Invitations/ Awards/ Fellowships Offers Received:

1. CIMPA- FELLOSHIPS :

In February 2007, was invited with **Fellowships** by the School of Mathematical Sciences, G.C. University, Lahore to attend the School “ **Configuration spaces and Applications**” to be held on February 12-18, 2007 in Lahore. The school organized in collaboration with Center International de Mathematiques Pures et Appliquees (CIMPA), France and Higher Education Commission, Pakistan.

2. IMS- Membership :

In May 2007, was invited with **Fellowships** by the Institute for Mathematical Sciences, National university of Singapore to attend the program on “**Braids**” to be held on May 14-July 13, 2007 and give a talk at the the conference(25-29 June, 2007) in Singapore.

3. In August 2006, was invited with **Fellowships** by West **FALISCHE ILHELMS UNIVERSITAT, MUNSTER** to attend in the “**International Conference in Global Differential Geometry**” to be held at **Mathematics Institute, W. W. University, Munster, Germany**-August 14-19, 2006.
4. In August 2006, was invited with **Fellowships** by **Pakistan Mathematical Society** to attend in the “**7th International Pure Mathematics conference** to be held at **Department of Mathematics, Quaid-i- Azam University, Islamabad-Pakistan**, August 5-7, 2006.
5. In Sept. 1997, Was invited by **Stefan Banach International Mathematical Centre** to participate in the “*Summer School on Geometrical Group Theory*” helds at Institute of Mathematics, University of **Gdan'sk, Warsaw, Poland**.
6. In Nov. 2005, was invited by CIRM(France) to attend in the International school-workshop on Finsler geometry, held at **CIRM(Laboratoire de Mathematiques universite de savoie) France Nov.14-18,2005**.

Membership of professional, Academic, Bodies, Societies etc :

- (1) Founder member of International Academy of Physical Sciences, India.
- (2) Member, Indian Mathematical Society, 1990, 1991, 1999, 2000 and 2005.
- (3) Member, The National Academy of Science, India 1995.
- (4) Member, Executive Council, Dr. R.M.L. Avadh University, Faizabad, 1997-98, 2008-2009.
- (5) Member, Board of Studies, Deptt. of Maths. & Stats. Dr. R.M.L. Avadh University, Faizabad. 1997-1999, 2003-2005, 2006-2009.
- (6) Member, Faculty of Science, Dr. R.M.L. Avadh University, Faizabad, 1999-2001.

Participation in Conferences, Seminars and Workshop:

International Level :

1. Workshop “**College on Differential Geometry**” **International Center for Theoretical Physic, Trieste-Italy** (30 October to 1 December, 1989).
2. International Conference on **Mathematical Physics** to be held At Faculty of Science, **Nagpur University, Nagpur, India** (Jan.11- 16.1999).
3. **UNESCO** Regional Training Workshop on “**use of Electronic Media in University Sciences Teaching**” Organized by School of Sciences **IGNOU**, from Dec.20-2001 to January 02-2002.
4. International Symposium on “Analysis, Manifolds and mechanics” organized by **M. C. Chaki Centre for Mathematical Sciences, Kolkata**, 5-7 Feb., 2003.
5. International Conference on “Differential Geometry and Physics” Organized by Department of Geometry , Faculty of Science , **Lorand Eolvos University, Budapest, Hungary**, Aug. 29 - Sept.2 , 2005.
6. **CIMPA School-ISFMA Symposium on Differential Geometry**, Theory and application, to be held School of **Mathematical Science, Fudan University**,

Shanghai, China, Aug. 7-18, 2006.

7. **International School on Geometry and Quantization at the University of Luxembourg August 31 till September 5, 2009.**

Attended to National Level :

1. 20th Refresher course in Mathematics on Geometry, Topology and related Area, Academic Staff College, **R.D. University**, Jabalpur (Dec. 1-21, 1995).
2. 56th I.M.S. Annual Conference, **South Gujarat University, Surat, India** (December, 1990).
3. 56th I.M.S. Annual Conference, **A.M.U. Aligarh, India** (December, 1991).
4. Workshop on Computer Operation and Software Applications, **Dr.R.M.L. Avadh University, Faizabad, India** (9 to 15 March, 1995).
5. **U.G.C.** Symposium on History of Mathematics and Astronomy on the occasion of Annual Conference of **BHARAT GANITA PARISHAD** and presented a paper "Bharat me Prachine Ganite" organized by **Lucknow University, Lucknow** (March 1989).
6. First Conference of International Academy of physical Sciences to be held at **M.G.K.V. Varanasi** (14-15 October 1996).
7. Second Conference of International Academy of Physical Sciences to be held at **G.G.D. University, Bilaspur, India** (1997).
8. Conference on Geometry and Topology, Department of Mathematics and Computer Sciences, **R.D. University, Jabalpur** (December-1995).
9. Third Conference on International Academy of Physical Science to be held at **Allahabad University, Allahabad (1999)**.
10. 65th I.M.S. Annual Conference to be held at **A. P. S. University, Rewa (M.P.)** 1999.
11. 66th I. M. S. Annual Conference to be held at **Dr. B. R .A. University, Aurangabad**, 2000.
12. IVth Conference of International Academy of Physical Sciences to be held at **M.G.Chitrakoot Gramodaya University, Chitrakoot (M.P.)** 2001.
13. Vth conference of International Academy of Physical Sciences to be held at Department of Mathematical Sciences and Computer Applications, **Bundelkhand University, Jhansi** (2002).
14. Conference on "Current trends in Mathematics" organized by Department of Mathematics, **University of Allahabad**, November 9-10, 2002.
15. VIth Conference of International Academy of Physical Sciences on "Emerging Dimensions of Physical Sciences" Organized by **D.D.U. Gorakhpur University, Gorakhpur**, February 6-8, 2004.
16. Refresher course in Mathematics, UGC-Academic staff College, **Lucknow University (U.P.) India**, August 16 to September 06, 2000.
17. Refresher course in Mathematics, UGC-Academic staff College, **Aligarh Muslim University, Aligarh (U.P.) India**, 23-July-2001 to 12- August-2001.

18. **71st I.M.S. Annual Conference to be held at Department of Mathematics, I.I.T. Roorkee, Dec. 26-29, 2005.**
19. **VIIIth Conference of International Academy of Physical Sciences** To be held at Department of Mathematics, C.C.S., University, Meerut 2005.
20. **IXth Conference of International Academy of Physical Sciences** to be held at Department of Mathematics, **B. R. A. University, Agra-2007.**
21. **Xth Conference of International Academy of Physical Sciences** to be held at Department of Mathematics, **G. G. University Bilaspur (2008).**

Orientation/Refresher Courses/Training Program/Summer

Institute attended :

1. **UNESCO Regional Training Workshop on “use of Electronic Media in University Sciences Teaching”** Organized by School of Sciences **IGNOU**, from Dec.20-2001 to January 02-2002.
2. Workshop “*College on Differential Geometry*” International Center for Theoretical Physic, **Trieste-Italy** (30 October to 1 December, 1989).
3. Refresher course in Mathematics, **UGC-Academic staff College, Aligarh Muslim University, Aligarh (U.P.) India**, 23- July-2001 to 12- August-2001.
4. Workshop on Computer Operation and Software Applications, **Dr. R.M.L. Avadh University, Faizabad, India (9 to 15 March 1995)**
5. Refresher course in Mathematics, **UGC-Academic staff College, Lucknow University (U.P.) India**, August 16 to September 06, 2000.
6. **20th Refresher course in Mathematics on Geometry, Topology and related Area, Academic Staff College, R.D. University, Jabalpur** (Dec. 1 to 21, 1995).

Administrative Responsibilities:

1. Assistant Centre Superintendent, Examination 1995-96, 1996-97. Examination Centre Dr. R.M.L. Avadh University, Faizabad.
2. Centre Superintendent, Ram Sewak Yadan Degree College Chandoli, Barabanki (Dr. R.M.L. Avadh University, Faizabad) main examination 1999.
3. Hostel Superintendent, Lavkush Hostel.
4. Observer, B.Ed. Exam. of Dr. R.M.L. Avadh University.
5. Senior Centre Superintendent of Exam. Combined Entrance Test 2001, Dr. R.M.L. Avadh University, Faizabad.
6. Observer, All India Pre- medical and Pre- dental Entrance Test by CBSE, 2001, 2002, 2008.
7. Observer, U.P. CPMT, 2003. 2005, 2006, 2007, 2008.

Others:

1. Joint Secretary, Dr, R.M.L. Avadh University, Residential Teachers Association. 1995-96.
2. Member, Committee for conducting Collage and Rangoli events at the “Youth Festival”, 2002-03.

3. Team Manger, U.P. Universities, Youth Festival, Dr. R.M.L., Avadh University, Faizabad - 2002, Organised by Lucknow University, Lucknow.
4. Member, BOS, Dept. of Maths. & Stats.
5. Member, Departmental admission committee.

TEACHING PHILOSOPHY:

Since 1991, I have constantly been involved in teaching, and have always enjoyed the support and appreciation of my students. At the Dept. of Math & Stats., at Dr.R.M.L. Avadh University, Faizabad(U.P.) India. I taught various courses at the U.G & P.G. levels: Statics, Dynamics, Vector Algebra, Calculus, Analysis, Topology, Mathematical Analysis, Functional Analysis, Linear Algebra and Geometry. I continued teaching at the Dr.R.M.L. Avadh University, including a full course, and provided tutorial assistance to various others; up to the Final year courses. I feel quite comfortable with courses similar to all of the above as well as course such as Complex analysis Measure Theory and Integration. My teaching philosophy is simple. I have always been quite sensitive to anything less than excellent teaching. I knew what I needed as a student and I knew what my fellow students needed. Later on when I got the opportunity to teach I tried to give my students all they needed to quickly understand the material and advance on their own through the joy of mastering the problems and through the satisfaction which comes with new knowledge of the general concepts behind particular (or practical) examples. I have always believed that it does not matter whether a student likes mathematics or not, nor whether the student is good at it or not; he or she can always learn to do mathematics reasonably well and then it becomes enjoyable. There are always students who are ahead with the material and/or students who can think faster than the others. These students could be lost if we do not supply extra challenging problems or concepts. On the other hand, there are students who lack some prerequisites and we can lose them if the presentation is not clear enough or/and if there are not enough simple examples and references to previous knowledge. Balancing between these two extremes is very delicate, so my teaching is quite flexible. I can easily adapt not only to the different needs of the students, but also to the requirements of the program and the department. However, several features are always present in my lectures: well-organized, well-written and lucid presentation of The mathematics with a lot of references to previous knowledge and easy to follow examples; stress on the applications and the general concepts behind the material; at least one challenging (or open) question for the best students. In all of my communications with students I show my respect and willingness to help. I am friendly in class and office hours although I expect the students to be serious about their studies. I am very patient with my students even though I make it clear that they put in effort on their own. Believe that my board experience in teaching is a good prerequisite for a successful career related to mathematical education at any level.

References :

1. Prof. R.B. Misra

Ex- Vice Chancellor, Avadh University, Faizabad.(U.P.) India,
Ex-Head, Deptt. of Maths., Physics & Stats., Faculty of
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South America. and Head, Maths. & Comp. Sci.,
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2. Prof. P.N. Pandey

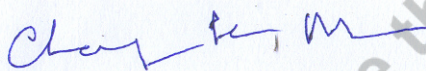
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(Dr. CHAYAN KUMAR MISHRA