

## CURRICULUM VITAE

**Name:** Prof. Ramji Lal  
Retired Professor (Mathematics),  
Department of Mathematics,  
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### Affiliated Institutes:

1. University of Allahabad (1968-2010)
2. Co-ordinator of Nuture program of NBHM at HRI, Allahabad (1996-2000)
3. Adjunct Professor, IIIT Allahabad (2011-2015)

**Research Interests:** Group Theory, Algebraic K-theory and Representation Theory.

### PhD Supervisions:

- Prof. R. P. Shukla, University of Allahabad.
- Prof. Shiv Datt Kumar, MNNIT Allahabad.
- Dr. Brijesh Kumar Sharma, University of Allahabad.
- Dr. Akhilesh Chandra Yadav, MGKVP Varanasi.
- Dr. Kiran Kumar.

### Publications:

Papers Published/Accepted in the International/National journals/conferences:

- **Generalized right near domains and sharply 2-transitive groups**, accepted in J. Algebra Appl. (with Vipul kakkar, Ratan Lal and Akhilesh Chandra Yadav).
- **Lie commutator, Solvability and Nilpotency in Multiplicative Lie Algebras**, accepted in J. Algebra Appl. (with Mani Shankar Pandey and Sumit Kumar Upadhyay).
- **Multiplicative Lie algebras and Schur Multiplier**, J. Pure Appl. Algebra, 223 (9), 3695-3721, September 2019 (with Sumit Kumar Upadhyay).

- **Twisted automorphisms and twisted right gyrogroups**, *Comm. Algebra*, 43 (8), 3442-3458, 2015 (with Akhilesh Chandra Yadav).
- **Weak classification of finite groups**, *Asian-Eur. J. Math.*, 7 (4) (with Atul Singh).
- **Topological right gyrogroups and gyrotransversals**, *Comm. Algebra*, 41 (9), 3559-3575, 2013 (with Akhilesh Chandra Yadav).
- **Smooth right quasigroup structures on 1-manifolds**, *J. Math. Sci. Univ. Tokyo*, 17 (2), 313-321, 2011 (with Akhilesh Chandra Yadav).
- **Pseudo-cohomology of general extensions**, *Homology Homotopy Appl.*, 12 (2), 147-165, 2010 (with B. K. Sharma).
- **On Dedekind-type groups**, *Int. J. Algebra*, 3 (17-20), 799-813, 2009 (with B. K. Sharma).
- **Finite just non-Dedekind groups**, *Int. J. Algebra*, 3 (5-8), 799-813, 2009 (with V. K. Jain and R. P. Shukla).
- **A characterization of Tarski monsters**, *Indian J. Pure Appl. Math.*, 36 (12), 673-678, 2005 (with R. P. Shukla).
- **Transversals in non-discrete groups**, *Proc. Indian Acad. Sci. Math. Sci.*, 115 (4), 429-435, 2005 (with R. P. Shukla).
- **Lifting of the generators of an ideal and Nori's homotopy conjecture**, *Indian J. Pure Appl. Math.*, 34 (11), 1599-1610, 2003 (with Shiv Datt Kumar).
- **Some problems on Dedekind-type groups**, *J. Algebra*, 181 (1), 223-234, 1996.
- **Transversals in groups**, *J. Algebra*, 181 (1), 70-81, 1996.
- **Perfectly stable subgroups of finite groups**, *Comm. Algebra*, 24 (2), 643-657, 1996 (with R. P. Shukla).

Published Books:

- **Algebra 1 (Groups, Rings, Fields and Arithmetic)**, Springer 2017.
- **Algebra 2 (Linear Algebra, Galois Theory, Representation Theory, Group Extensions and Schur Multiplier)**, Springer 2017.
- **Algebra 3 (Homological Algebra and Its Applications)**, Springer 2021.
- **Algebra 4 (Lie Algebras, Chevalley Groups, and their Representations)**, Springer 2021.