

# *Curriculum Vitae*

**Dr. MOHAMMAD ASHRAF**  
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## **Employment History**

- **Lecturer** in the Department Of Mathematics, Aligarh Muslim University, from December 20, 1986 to September 10, 1992.
- **Senior Lecturer** in the Department Of Mathematics, Aligarh Muslim University, from September 11, 1992 to March 28, 1997.
- **Reader** in the Department of Mathematics, Aligarh Muslim University, from March 29, 1997 to December 15, 1998.
- **Associate Professor** in the Department of Mathematics, Faculty of Science, King Abdulaziz University, from December 16, 1998 to February 10, 2004.
- **Reader** in the Department Of Mathematics, Aligarh Muslim University, from February 11, 2004 to March 28, 2005.
- **Professor** in the Department Of Mathematics, Aligarh Muslim University, from March 29, 2005 (continue).

## **Scholastic Record**

- **Ph.D. (Mathematics)** from Aligarh Muslim University, Aligarh in the year 1986.  
*Topic of Ph.D. Thesis* “A study of certain commutativity conditions for associative rings”.
- **M.Phil. (Mathematics)** from Aligarh Muslim University, Aligarh in the year 1983.  
*Topic of M.Phil. Dissertation* “A study of commutativity of some special class of rings”.
- **M.Sc. (Mathematics)** from Aligarh Muslim University, Aligarh in the year 1981(**Gold Medalist**).

- **B.Sc.(Mathematics, Physics & Chemistry)** from Gorakhpur University, Gorakhpur in the year 1978.

## Awards & Scholarships

- **Young Scientist's Award** from Indian Science Congress Association in the year 1988.
- **I.M.S. Prize** from Indian Mathematical Society for the year 1995.
- **Ziauddin Gold Medal** for securing first position at M.Sc. examination in the year 1981.
- **Senior Research Fellowship** from University Grants Commission, India (1984-1986).
- **Junior Research Fellowship** from University Grants Commission, India (1982-1984).
- **Postgraduate Merit Scholarship** during M.Sc. (1979-1981).

## Field of Specialization/Interest

Ring Theory/Commutativity and Structure of Rings and Near-rings, Derivations on Rings, Near-rings & Banach Algebras, Functional Identities in rings and algebras, Applied Linear Algebra, Algebraic Coding Theory, Cryptography and Graph theory.

## Research Guidance

- **09** Students (Completed Ph.D.)
- **07** Students (Completed M. Phil)
- **05** Students( Guiding for Ph. D.)

## Ph.D. thesis supervised

Year	Name of research students	Title of thesis
2009	<i>Muzibur Rahman Mozumder</i>	<i>A study of generalized derivations in rings</i>
2011	<i>Almas Khan</i>	<i>On derivations in associative rings</i>
2013	<i>Malik Rashid Jamal</i>	<i>A study of derivations in certain special classes of rings</i>
2014	<i>Mohammad Aslam Siddeeqe</i>	<i>On derivations and related mappings in rings and Near – rings</i>
2015	<i>Nazia Parveen</i>	<i>On certain additive mappings in rings</i>
2015	<i>Ghulam Mohammad</i>	<i>A study of Linear codes over finite rings</i>
2017	<i>Aisha Jabeen</i>	<i>Nonlinear functions on certain special classes of algebras</i>
2018	<i>Bilal Ahmad Wani</i>	<i>A study of certain additive mappings in rings and algebras</i>
2018	<i>Sajad Ahmad Pary</i>	<i>Functional identities in rings and algebras</i>

## Major Research Projects: 03

- **Principal Investigator** of a Major Research Project "*A Study of Identities with Generalized Derivations in Rings and its Applications*" funded by the Department of Science and Technology( DST) for three years ( Project No. SR/S4/MS:556/08) (2009-2012).
- **Principal Investigator** of a major research project *Derivations and related mappings in Rings and Algebras* supported by Slovenian-Indian joint working group on Scientific and Technological co-operation under the auspices of the **Department of Science and Technology (DST), India** and **Ministry of Higher Education Science and Technology (MHEST), Republic of Slovenia** (2011- Contd.)(Project No. INT/SLOVENIA/P-18/2009).
- **Principal Investigator** of DST Mathematical Research Impact Centric Support (MATRICS) Project entitled, *Generalized higher derivable mappings in rings with applications*, April 01, 2018 to March 31, 2021(Project No.MTR/2017/000033).

**Research Experience: 32 years** research experience in the field of structures and commutativity of rings, structures and commutativity of Near-rings, Rings with polynomial identities, derivations and its various generalizations in rings, near-rings,  $\Gamma$ -rings, Banach Algebras and  $C^*$ - algebras, Algebraic Coding Theory and Cryptography.

**Research publications: 190** (Research Papers)

- Number of Papers Published: **173**(see **Annexure-I**)
- Number of Papers Accepted for Publication: **17**(see **Annexure-I**)
- Papers presented at conferences: **21**(see **Annexure-II**)
- Seminars and Conferences attended: **42**(see **Annexure-III**)

**Teaching Experience: 30 years**

## Topics Taught

Abstract Algebra, Linear Algebra, Lattice Theory, Algebraic Structures, Field Theory, Infinite Abelian Groups, Ring Theory, Advance Set Theory and Number Theory, Field Theory, Complex Analysis, Numerical Analysis, Calculus, Differential equations Geometry , Complex Trigonometry, Vector Analysis, Series and Sequences, Theory of Matrices and Determinants, Mathematical Logic, Mathematical Modeling and Differential Equations.

## Professional Services

- **Editor-in-chief**, Journal of Algebra and Computational Applications.

- **Managing Editor**, The Aligarh Bulletin of Mathematics.
- **Editor**, Palestine Journal of Mathematics (PJM)
- **Editor**, International Journal of Mathematics and Systems Science(IJMSS).
- **Editor**, Studies in Mathematical Sciences, Canadian Research & Development Center of Science and Cultures.
- **Acting as REFREE** for many reputed journals namely Comm. Algebra, Bull. Austral. Math. Soc., Canad. Math. Bull., Algebra Colloq., Southeast Asian Bull. Math., Turk. J. Math., East west J. Math., J. Korean Math. Soc., Bull. Korean Math. Soc., Indian J. Math., Indian J. Pure & Appl. Math., Far East J. Math., Taiwanese J. Math., Int. J. Math. & Math. Sci., Math. J. Okayama. Univ., Acta Math. Sinica, Internat. J. Math. Game Theory and Algebra, Comm. Korean Math. Soc., Thai J. Math., Bull. Iranian Math. Soc., Indian J. Math. etc.
- **Reviewer** of Mathematical Reviews(USA) and Zentralblatt Math (Germany)
- **Co-ordinator**, Refresher Course in Mathematics, held in the Department of Mathematics during February 03-23, 2009 under the auspices of Academic Staff Collage, A.M.U., Aligarh.
- **Co-convener**, International Conference on Algebra and its Applications (ICAA-10), organized by the Department of Mathematics, A.M.U., Aligarh, India.
- **Convener**, International Conference on Algebra and its Applications (ICAA-16), organized by the Department of Mathematics, A.M.U., Aligarh, India, during November 12-14, 2016.
- **Convener**, International Conference on Algebra and its Applications (ICAA-17), organized by the Department of Mathematics, Mouley Ismael University, Er-rachidia, April 26-28, 2017, Morocco.

## Memberships

- **Life Member** of the Indian Science Congress.
- **Life member** of the Indian Mathematical Society.
- **Life member** of Calcutta Mathematical Society.
- **Life member** of the Indian Society of Industrial and Applied Mathematics (ISIAM).

## Experience in Corporate Life

- **Elected Member** of Academic council, Aligarh Muslim University, Aligarh 1993.
- **Elected Member** of University court, Aligarh Muslim University, Aligarh 2005.

- **Elected Member** of Academic Council, Aligarh Muslim University, Aligarh 2006.
- **Provost** of M.M.Hall. Aligarh Muslim University, Aligarh (24.6.2012 to 9.4.2015)
- **Member** of Board of Studies, Jamia Millia Islamia, New Delhi ( 2012-14)
- **Member** of Board of Studies, Department of Statistics & Operation Research, A.M.U., Aligarh(October, 2013- 2015)
- **Member** of Board of Studies, Department of Post Harvest Engineering and Technology, A.M.U., Aligarh(August, 2014-2016)
- **Member** of Board of Studies, Department of Applied Chemistry, Z.H. College of Engineering and Technology, A.M.U., Aligarh(December 2015-2017)
- **Member** of Board of Studies, Department of Applied Mathematics, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi(August 2018- Contd.)
- **Member** co-opted member of the Faculty committee, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi (16-7-2018–15-7- 2021)

## Books

### (i) Edited Four research Volumes:

- Algebra and its applications(2001), Narosa Publishing House, New Delhi (Editors S.T.Rizvi, M.A.Quadri and M.Ashraf).
- Algebra and its applications, Recent Developments, (2011), Narosa Publishing House, New Delhi(Editors Afzal Beg and M. Ashraf).
- Advances in Algebra and its applications,(2018) De Gruyter (Editors M. Ashraf, V.De Filippis and S.T. Rizvi).
- Edited special volume "Algebra and its Applications",Palestine J. Math. (2018) (Editors Ayman Badavi, Najib Mahdou, M. Ashraf and A. Mamouni)

## Chapters in Research Volumes:

- *Some polynomials constraints on rings*, Algebra and its Applications, S.Tariq Rizvi, M.A.Quadri and M.Ashraf(Editor), Narosa Pub. House, 1997.
- *Certain near-rings with derivations are rings*,Advances in Mathematics, Gabriel Oyiibo(Editor), Nova Science Publishers, New York, 2003.
- *On Commutativity of rings with constraints on a subset*, Recent Research on Pure and Applied Algebra, Omar Pordavi(Editor), Nova Science Publishers, New York, 2003.

- $(\sigma, \tau)$ -derivations on prime near-rings, Trends in Theory of Rings and Modules (S. Tariq Rizvi & S. M. A. Zaidi, (Eds.)), Anamaya Publishers, New Delhi, (2005)(Jointly with Shakir Ali)
- On generalized  $(\alpha, \beta)$  derivations in Rings and Modules, Ring theory 2007, 165i;  $\frac{1}{2}$ 172, World Sci. Publ., Hackensack, NJ, 2009(Jointly with Shakir Ali and N., Rehman)
- Jordan mappings in Rings: A Survey, Algebra and its Applications, Narosa Publishing House, New Delhi (2011),5-25 (jointly with N. Rehman and Shakir Ali)
- On Higher Derivations: A survey, Mathematical Theories, Models and Groups , Marcus J. Grecher, Editor), Nova Science Publishers, Newyork 2012 (Joittly with Claus Haetinger and Shakir Ali)
- On the traces of permuting  $n$ -derivations in rings, Algebra, analysis and applications, Narosa Publishing House, New Delhi (2015),41-58 (jointly with Nazia Parveen)
- Idempotent generators of cyclic codes with  $F_p + vF_p$ , Algebra, analysis and applications, Narosa Publishing House, New Delhi (2015), 81-90(jointly with Ghulam Mohammad)
- Skew constacyclic codes over  $F_q + vF_q + v^2F_q$  , Algebra and its Applications, De Gruyter (2018)(to appear)
- On commutativity of Banach  $*$ -algebras with derivation, Homological and combinatorial methods in algebra, 27–39, Springer Proc. Math. Stat., 228, Springer, Cham, 2018. [https://doi.org/10.1007/978-3-319-74195-6\\_3](https://doi.org/10.1007/978-3-319-74195-6_3) (Jointly with Bilal A. Wani)
- Nonlinear Lie triple higher derivation on triangular algebras, Contemporary Mathematics, American Mathematical Society (2018)(jointly with Aisha Jabeen)
- On derivations in near-rings and its generalizations: A survey, Algebra and its Applications, Palestine J. Math. Vol. 7, Special issue I(2018),11-124. (jointly with M.Aslam Siddeeqe)
- Additivity of Jordan higher Derivable maps on alternative rings, Algebra and its Applications, Palestine J. Math. Vol. 7, Special issue I(2018), 50-72. (jointly with Aisha Jabeen)

## Languages known

- English, Hindi and Urdu : Read, write & speak fluently.
- Arabic : Read only.

## International Experience

- **Saudi Arabia** Associate Professor in the Department of mathematics, King Abdulaziz University Jeddah, Saudi Arabia, December 16, 1998 to February 10, 2004.

- **Japan** Attended and chaired a session in The Fifth China-Japan-Korea International Symposium on Ring Theory held at the National Olympic Memorial Youth Center(NYC), Tokyo, JAPAN during September 10-15, 2007.
- **Japan** *Delivered plenary lecture on Jordan triple  $(\sigma, \tau)$ -higher derivations in rings* The Sixth China-Japan-Korea International Conference on Ring and Module Theory, Kyunghee University , Suwon, South Korea, June 27-July 02, 2011.
- **South Korea** Attended and Chaired a session in the Sixth China-Japan-Korea International conference on Ring and Module Theory, held at the College of Applied Science, Kyunghee University, Suwon, South Korea, Jun 27-July 02, 2011
- **South Korea** Delivered a series of lectures on Generalized Derivations and its Applications at the Department of Mathematics, Pusan National University, Pusan, South Korea, July 03- July 09, 2011.
- **Slovenia** Visited and delivered a series of lectures on Generalized Triple Higher derivations in Prime and semiprime rings at the Department of Mathematics and Computer Science, University of Maribor, Maribor, Slovenia under bilateral exchange programme between the Department of Science and Technology (DST), India and the Ministry of Higher Education in Science and Technology (MHEST), Slovenia during September 17 - October 11, 2012.
- **Slovenia** Visited and delivered a lecture on Higher derivations in rings in the Faculty of Management, University of Primorsaka, Koper, Slovenia on September 20, 2012.
- **Italy** Visited Abdussalam Center for theoretical Physics, Trieste, Italy on September 30, 2012.
- **Austria** Visited the Department of Mathematics, University of Graz, Austria, October 1-2, 2012.
- **Slovenia** Visited and delivered a series of lectures on Generalized Jordan triple derivations in rings at the Department of Mathematics, University of Maribor, Maribor, Slovenia under bilateral exchange programme between the Department of Science and Technology (DST), India and the Ministry of Higher Education in Science and Technology (MHEST), Slovenia during September 07-18, 2013.
- **Slovenia** Visited and delivered a series of lectures on Generalized  $n$ -derivations and related mappings in prime(semiprime) near rings, in the Faculty of Management, University of Primorsaka, Koper, Slovenia during September 18-22, 2013.
- **U.S.A.** Attended and delivered an invited lecture in the XXXIInd Ohio State- Denison Mathematics conference at The Ohio State University , Columbus, Ohio during May 9-11, 2014.

- **U.S.A.** Chaired a session in the XXXIInd Ohio State- Denison Mathematics conference at The Ohio State University , Columbus, Ohio during May 10, 2014.
- **U.S.A.** Visited and delivered lecture at the Department of Mathematics, Ohio State University, Lima during May 12-17, 2014.
- **Saudi Arabia** Visited Department of mathematics, King Abdulaziz University Jeddah, Saudi Arabia, during June 9-21, 2014 and delivered a series of lectures.
- **Saudi Arabia** Visited Department of mathematics, King Abdulaziz University Jeddah, Saudi Arabia, during February 23 - March 12, 2016 and delivered a series of lectures.
- **Morocco** Delivered Plenary Lecture in the International conference on Algebra and its Applications, Mouley Ismael University, Errachidia, April 26-28, 2017.
- **Morocco** Chaired a session in the International conference on Algebra and its Applications, Mouley Ismael University, Errachidia, April 26-28, 2017.
- **Saudi Arabia** Visited Department of mathematics, King Abdulaziz University Jeddah, Saudi Arabia, during February 07 - 18, 2018 and delivered lectures.

## Planary/Invited Lectures

- *Delivered an invited lecture on commutativity of rings with commutator constraints*, International Symposium on rings, modules and groups with homological techniques and their applications, held at the Institute of Technology, Varanasi, December 18-21, 1995.
- *Delivered lectures in Refresher Course on Modern Trends in Algebra* held at the Department of Mathematics, A.M.U., Aligarh, India under the auspices of Academic Staff Collage, February 2-28, 1998.
- *Delivered lectures on Class equations in Groups* in a refresher course held in the Department of Mathematics, A.M.U., Aligarh, India under the auspices of , Academic Staff Collage, September 01-21, 2004.
- *Delivered lectures in a Refresher Course on Advances in Mathematics* held at the Department of Mathematics, A.M.U., Aligarh under the auspices of Academic Staff Collage, July 05-25, 2006.
- *Delivered a series of lectures on Sylow's theorems and their Applications* in a refresher course organized by Academic Staff College of Jamia Millia Islamia, New Delhi, November 10-30, 2006
- *Delivered an invited lecture on derivations of some special class of rings*, 16th Annual Conference of The Jammu Mathematical Society held at Department of Mathematics, University of Jammu, Jammu, March 1-3, 2006.



- *Delivered lectures in a Refresher Course on Recent trends in Mathematics* held at the Department of mathematics under the auspices of Academic Staff Collage, Aligarh, India, November 19, 2007 to December 09, 2007.
- *Delivered an invited lecture on Lie ideals and  $(\theta, \phi)$ -generalized derivations in rings*, The Fifth China-Japan-Korea international Symposium on Ring Theory, September 10-15, 2007, Tokyo(Japan).
- *Delivered a series of lectures on Jordan derivations in prime and semiprime rings*, Referesher Course in Mathematics, held during February 03-23, 2009 under the auspices of Academic Staff Collage, A.M.U., Aligarh.
- *Delivered plenary lecture on generalized derivations in rings*, International Conference on Recent Trends in Mathematics and its Applications(ICRTMA-09), held at Jamia Millia Islamia , New Delhi, India, March 30-31, 2009.
- *Delivered an invited lecture on strong commutativity preserving generalized derivations and related mappings in rings*, International Conference on Algebra and its Applications (ICAA-10), held at Aligarh Muslim University, Aligarh,India, February 20-22, 2010.
- *Delivered an invited lecture on Symmetric generalized  $(\sigma, \tau)$ -biderivations in Rings*, International Congress of Mathematicians, Hyderabad, India, August 19-27, 2010.
- *Delivered lectures on Jordan triple higher derivations in rings* in the Department of Mathematics, Jamia Millia Islamia, New Delhi during March 21-22, 2013 under the auspices of UGC -DRS Programme.
- *Delivered an invited talk on generalised  $n$ -derivations in Near-rings* at International conference on recent advances in Mathematics(ICRAM-2014) held during January 20-23, 2014 at the department of mathematics, R.T.M., Nagpur University, Nagpur, India
- *Delivered invited lecture on Generalized  $n$ -derivations and related mappings in near-rings* at the 32nd Ohio State-Denison- Mathematics conference held at the Ohio State University Columbus, USA during May 9-11,2014.
- *Delivered a lecture on generalized triple higher derivations on Lie ideals in rings* at the Department of Mathematics, Ohio State University, Lima, USA during the OSU-Lima Algebra Seminar on May 17, 2014.
- *Delivered an invited lecture on the traces of permuting  $n$ -derivations in rings*, at the International conference on Algebra, Geometry, Analysis and their Applications held at the Department of Mathematics, Jamia Millia Islamia New Delhi during November 27-29, 2014.

- *Delivered a seminar lecture on generalized  $n$ -derivations in near-rings*, at the department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia on June 11, 2015.
- *Delivered a seminar lecture on Jordan triple higher derivations in rings*, at the department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia on June 12, 2015.
- *Delivered an invited lecture on generalized  $n$ -derivations in prime near-rings*, at the International conference on Semigroup Algebra and Applications (ICSAA-2015) organized by the Department of Mathematics, Cochin University of Science and Technology, Kochi during September 17-19, 2015.
- *Delivered a seminar lecture on higher derivations on triangular algebras*, at the department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia on February 25, 2016.
- *Delivered a seminar lecture on the traces of permuting  $n$ -derivations in rings*, in the department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia on February 26, 2016.
- *Delivered an invited lecture on derivations on triangular algebras*, under DRS programme in the Department of Mathematics, Jamia Millia Islamia New Delhi, March 29, 2016.
- *Delivered Plenary lecture in the International Conference on Algebra and its Applications on Generalized Permuting  $n$ -derivations in prime near-rings*, Department of Mathematics, Mouley Ismael University, Errachidia, Morocco during April 26-28, 2017.
- *Delivered a seminar lecture on  $n$ -additive mappings on 3-prime near-rings*, College of Science and Arts, Rabigh, Jeddah, Saudi Arabia on May 14, 2017.
- *Delivered a seminar lecture on nonlinear higher derivable mappings on some special classes of algebras*, Department of Mathematics, King Abdulaziz University, Jeddah on May 16, 2017.
- *Delivered an invited talk on Nonlinear Higher derivations on Triangular Algebras with Applications*, in the 83rd Annual Conference of Indian Mathematical Society-an International Meet, held at Sri Venketeshwara University, Tirupati during December 12-15, 2017.
- *Delivered an invited lecture on " Nonlinear higher derivations on unital algebras*, in the Department of Mathematics, King Abdulaziz University, Rabigh Campus, Rabigh (K.S.A.) on February 12, 2018.

- *Delivered an invited lecture on Nonlinear Lie higher derivations on triangular algebras with applications* in the International conference on Algebra and Applied Analysis (ICAAA-2018) held at the Integral University, Lucknow, U.P.(India) during August 9-11, 2018.

## Research Publications

1. Mohammad Ashraf and M. Aslam Siddeeqe, *Generalized multiplicative dderivations and commutativity of 3-prime near-rings*, Afrika Matematika (Accepted)
2. Abdelkarim Baua and Mohammad Ashraf, *Identities in 3-prime near-rings with left multipliers*, J. Algebra and related topics (Accepted)
3. Mohammad Ashraf, Aisha Jabeen and M. Shoeb Akhtar, *Generalized Jordan triple  $(\sigma, \tau)$ -higher derivation on Triangular algebras*, Filomat (Accepted)
4. Shakir Ali, Mohammad Ashraf, M. Arif Raza and Abdul Nadeem Khan, *n-commuting mappings on (semi)-prime rings with applications*, Comm. Algebra (Accepted)
5. Mohammad Ashraf, M. Shuib Akhtar and Aisha Jabeen, *Generalized Jordan higher derivable mappings on rings*, An. Stiint. Univ.Al.I.Cuza Iasi. Mat (N.S.)(Accepted)
6. Mohammad Ashraf and Bilal A. Wani, *Multiplicative Lie triple higher derivations on standard operator algebras*, Math. Reports(Accepted)
7. Mohammad Ashraf, Aisha Jabeen and Nazia Parveen, *On Jordan triple  $(\sigma, \tau)$ -higher derivation of Triangular algebra*, Special Matrices (Accepted)
8. Mohammad Ashraf, V. D. Filippis, S. A. Pary and V. K. Tiwari, *Derivations vanishing on commutator identity involving generalized derivation on multilinear polynomials in prime rings*, Comm. Algebra (Accepted)
9. Mohammad Ashraf, Almas Khan and Malik Rashid Jamal, *Traces of Permuting Generalized n-Derivations of Rings*, Miscolk Math Notes (2018) (Accepted)
10. Mohammad Ashraf, M. Shoeb Akhtar and Aisha Jabeen, *Additivity of r-Jordan triple maps on triangular algebras*, Pacific J. Appl. Math.(Accepted)
11. Mohammad Ashraf and Bilal A. Wani, *On Commutativity of Rings and Banach Algebras with Generalized Derivations*, Advances in Pure and Applied Math.(2018) (Accepted)
12. Abdelkarim Boua and Mohammad Ashraf, *Identities related to generalized derivations in prime \*-rings*, Georgian Math. J. (Accepted)
13. Abdelkarim Boua and Mohammad Ashraf, *Differential identities and generalized derivations in prime rings with involution*, Southeast Asian Bull. Math.(Accepted)
14. Mohammad Ashraf, Sajad A. Pary and M. Arif Raza, *On differential identities involving commutator and anti-commutator in prime and semi-prime rings*, An. Stiint. Univ.Al.I.Cuza Iasi. Mat (N.S.)(Accepted)
15. Abdelkarim Boua and Mohammad Ashraf, *Some algebraic identities in 3-prime near-rings*, Ukrainian J. Math. (Accepted)

16. Ahmad N. Alkenani, Mohammad Ashraf and Bilal A. Wani, *Characterizations of \*-Lie derivable mappings on prime \*-rings*, Rad HAZU, Matematičke znanosti, Vol. 23(2019) (to appear)
17. Mohammad Ashraf, Bilal A. Wani and Feng Wei, *Multiplicative \*-Lie Triple higher derivations of standard operator algebras*, Questiones Math., <https://doi.org/10.2989/16073606.2018.1502213>, in press
18. Tushar Bag, Ashish K. Upadhyay, Mohammad Ashraf and Ghulam Mohammad, *Quantum codes from cyclic codes over the ring  $F_p[u]/\langle u^3 - u \rangle$* , Asian-Eur J. Math. Vol. 13, No. 1 (2020) 2050008 (10 pages); DOI: 10.1142/S1793557120500084
19. Mohammad Ashraf, Bilal A. Wani and S.A. Pary, *Derivations of Rings and Banach Algebras involving commutator*, Rend. Sem. Mat. Univ. Pol. Torino Vol. 76, 1 (2018), 55 – 62
20. Mohammad Ashraf and Ghulam Mohammad, *Skew cyclic codes over  $F_q + uF_q + vF_q$* , Asian-Eur. J. Math., Vol. 11, No.5 (2018)(11 pages); <http://dx.doi.org/10.1142/S1793557118500729>
21. Mohammad Ashraf and Aisha Jabeen, *Nonlinear Lie triple higher derivation on triangular algebras*, Contemporary Mathematics, Vol. 715, 2018 <https://doi.org/10.1090/conm/715/14403>
22. Mohammad Ashraf and malik Rashid Jamal, *Generalized derivations on \*-prime rings*, Kyungpook Math. J., Vol. 58(2018), 481-488; <https://doi.org/10.5666/KMJ.2018.58.3.481>
23. Mohammad Ashraf and Bilal A. Wani, *On certain functional equations related to Jordan \*-derivations in semiprime \*-rings and standard operator algebras*, Pure Math. Appl. (P.U.M.A.) 27 (2018), no. 1, 1–17.
24. Mohammad Ashraf and Aisha Jabeen, *Nonlinear generalized Lie triple higher derivation on Triangular algebras*, Bull. Iranian Math. Soc., Vol. 44, No. 2 (2018), 513–530.
25. Mohammad Ashraf and Sajad A. Pary, *An identity involving automorphisms Of prime rings inspired by Posner's theorem*, Journal of Taibah University for Science, Vol. 12, NO. 3 (2018), 344–347; <https://doi.org/10.1080/16583655.2018.1469852>
26. Mohammad Ashraf, A. Boua and M. Aslam Siddeeqe, *Generalized multiplicative derivations in 3-prime near-rings*, Math. Slovaca, Vol.68, No. 2, (2018), 331-338; DOI: 10.1515/ms-2017-0104.
27. Ahmad N. Alkenani, Mohammad Ashraf and Aisha Jabeen, *Nonlinear generalized Jordan  $(\sigma, \tau)$ -derivations on Triangular algebras*, Spec. Matrices, Vol.6 (2018),216–228.
28. Mohammad Ashraf and Vincenzo De Filippis, *A note on Generalized Skew Derivations on Lie ideals*, Proc. Indian Acad. Sci. Math. Sci. Vol. 128 (2018), no. 2, Art. 21, 14 pp <https://doi.org/10.1007/s12044-018-0399-y>
29. Mohammad Ashraf, Shakir Ali and Bilal A. Wani, *Nonlinear \*-Lie higher derivations of standard operator algebras*, Comm. Math., Vol. 26(2018),15–29; DOI: 10.2478/cm-2018-0003
30. Mohammad Ashraf and Ghulam Mohammad, *On skew cyclic codes over  $F_q + vF_q + v^2F_q$* , Tbilisi Mathematical Journal, Vol. 11(2) (2018), 35-45.

31. Mohammad Ashraf and Ghulam Mohammad, *Quantum codes over  $F_p$  from cyclic codes over  $F_p[u, v]/\langle u^2 - 1, v^3 - v, uv - vu \rangle$* , Cryptogr. Commun. <https://doi.org/10.1007/s12095-018-0299-0>
32. Mohammad Ashraf, M. Arif Raza and Sajad A. Pary, *Commutators having idempotent values with automorphisms in semiprime rings*, Math. Reports, 20(70) 1 (2018), 51-57.
33. Mohammad Ashraf and Aisha Jabeen, *Nonlinear Jordan triple higher derivable mappings on Triangular algebras*, Southeast Asian Bull. Math. 41 (2017), 1-18.
34. Mohammad Ashraf and Nazia Parveen,  *$(\sigma, \tau)$ -\*-Jordan ideals in \*-Prime Rings*, Georgian. Math. J. (2017) <https://doi.org/10.1515/gmj-2017-0055>.
35. Mohammad Ashraf and Aisha Jabeen, *Nonlinear generalized Jordan  $(\sigma, \tau)$ -higher derivations on triangular algebras*, J. Algebra and Comp. Appl., Vol. 7, Issue 4(2017), 1-20.
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## Papers presented at Conferences

1. *A note on commutativity of rings*, 49th Annual Conference of Indian Mathematical Society held at the University of Madras, 1983 (Abs. # B-23).
2. *A remark on commutativity of semi-prime rings-II*, 50th Annual Conference of Indian Mathematical Society held at Sardar Patel University, Gujarat, 1984 (Abs. # B-8).
3. *Antipower maps and commutativity of rings*, Algebra Symposium, Aligarh Muslim University, Aligarh 1985.
4. *A commutativity theorem for left  $s$ -unital rings*, 52nd Annual Conference of Indian Mathematical Society held at the University of Jaipur, 1986.
5. *A commutativity theorem for  $s$ -unital rings*, 53rd Annual Conference of Indian Mathematical Society held at the University of Gorakhpur, 1987 (Abs. # B-140).
6. *On power maps and commutativity of associative rings*, 75th Session of the Indian Science Congress Association, held at the University of Pune, 1988, under the Young Scientists Programme (Abs. # XV-97).
7. *On some commutativity conditions for associative rings*, 54th Annual Conference of Indian Mathematical Society held at the University of Pune, 1988 (Abs. # B-17).
8. *Certain conditions and commutativity of rings*, 55th Annual Conference of Indian Mathematical Society held at the University of Delhi, 1989 (Abs. # B-36).
9. *Certain commutativity conditions for power associative rings*, 56th Annual Conference of Indian Mathematical Society held at South Gujarat University, Surat, 1990 (Abs. # B-30).
10. *A commutativity theorem for rings with unity*, 57th Annual Conference of Indian Mathematical Society held at Aligarh Muslim University, Aligarh 1991 (Abs. # B-21).
11. *On structure of certain periodic rings and near rings*, Conference on advances in Algebra and its applications held at Aligarh Muslim University, Aligarh Nov. 2-5, 1992.
12. *On commutativity of  $s$ -unital rings*, 81st Session of the Indian Science Congress Association, held at the University of Jaipur, 1994.
13. *Some commutativity theorems for rings with constraints on a subset*, 82nd Session of the Indian Science Congress Association, held at the University of Kalyani (Calcutta), 1995 (Abs. # V. 102).
14. *On strong commutativity preserving maps and traces of bi-additive maps*, 61st Annual Conference of Indian Mathematical Society held at Aligarh Muslim University, Aligarh December 27-30, 1995 (Abs. # B-2).
15. *On strong commutativity preserving derivations in near-rings*, 62nd Annual Conference of Indian Mathematical Society held at I.I.T., Kanpur, December 22-25, 1996 (Abs. # B-8).
16. *On some polynomial constraints on rings*, International Conference on Algebra and its Application held at Aligarh Muslim University, Aligarh November 13-16, 1997.



17. *On generalized  $(\theta, \phi)$ -derivations in rings and modules*, 16th Annual Conference of The Jammu Mathematical Society, held at Department of Mathematics, University of Jammu, Jammu, India, March 1-3, 2006.
18. *on characterization of constacyclic codes over two classes of rings*, International Conference on recent trends in Algebra and Analysis with Application held at Aligarh Muslim University, Aligarh February 12-14, 2014.
19. *Characterization of codes over a finite non-chain ring*, International Conference on Algebra, Geometry, Analysis and their Application held at Jamia Millia Islamia, November 27-29, 2014.
20. *On  $(\sigma, \tau)$ -derivation of  $\star$ -prime rings*, International Conference on Algebra, Geometry, Analysis and their Application held at Jamia Millia Islamia, November 27-29, 2014.
21. *Linear codes over the ring  $\mathbb{Z}_4$* , International conference on semigroups, algebras and applications held at Cochin University of Science and Technology, Cochi, September 17-19, 2015.

## Seminars, Summer Schools and Conferences attended

1. *49th Annual Conference of Indian Mathematical Society* held at the University of Madras (1983).
2. *50th Annual Conference of Indian Mathematical Society* held at the University of Gujarat, Ballabh Vidya Nagar (1984).
3. *51st Annual Conference of Indian Mathematical Society* held at Cochin University, Cochin (1985).
4. *Algebra Symposium* held at the Department of Mathematics, Aligarh Muslim University, Aligarh (1985).
5. *52nd Annual Conference of Indian Mathematical Society* held at the University of Rajasthan, Jaipur (1986).
6. *53rd Annual Conference of Indian Mathematical Society* held at the University of Gorakhpur, Gorakhpur (1987).
7. *75th Session of the Indian Science Congress Association* held at the University of Pune, Pune (1988).
8. *54th Annual Conference of Indian Mathematical Society* held at the University of Pune, Pune (1988).
9. *International Symposium on Differential Equations and Industrial Mathematics* held at A.M.U., Aligarh, India (1988).
10. *Academic Staff Orientation Programme* held at the Department of Mathematics under the auspices of Academic Staff Collage, Aligarh Muslim University from April 4 to April 30, 1988.
11. *55th Annual Conference of Indian Mathematical Society* held at the University of Delhi (1989).
12. *International Symposium on Differential equations and Industrial Mathematics* held at Aligarh Muslim University, Aligarh from Sept. 28 to 30, 1990.
13. *56th Annual Conference of Indian Mathematical Society* held at South Gujrat University, Surat (1990).
14. *57th Annual Conference of Indian Mathematical Society* held at Aligarh Muslim University, Aligarh (1991).
15. *Refresher Course in Algebra* held at the Dept. Of Mathematics A.M.U., Aligarh from Sept16, 1991 to October 12, 1991 under the auspicious of Academic Staff College, A.M.U., Aligarh, India (1991).
16. *Conference on Advances in Algebra & its applications* held at the Department of Mathematics, Aligarh Muslim University, Aligarh, from Nov. 2 to 5, 1992.

17. *Conference on Present Trends in Mathematics and Mathematics based subjects* held at the Department of Mathematics, Govt. Arts and Science College, Ratlam from February 11 to 12, 1994.
18. *Instructional School on Algebraic Number Theory* held at the University of Bombay from December 27, 1994 to January 14, 1995 under the auspices of National Board of Higher Mathematics.
19. *International Symposium on Rings, Modules and Groups with homological techniques and their applications*, held at the Institute of Technology, Varanasi from December 18-21, 1995.
20. *61st Annual Conference of Indian Mathematical Society* held at the Department of Mathematics, Aligarh Muslim University, Aligarh from December 27-30, 1995.
21. *62nd Annual Conference of Indian Mathematical Society* held at the Department of Mathematics, I.I.T., Kanpur from December 22-25, 1996.
22. *International Conference on Algebra and its Applications* held at the Department of Mathematics, Aligarh Muslim University, Aligarh from November 13-16, 1997.
23. *International Conference on Industrial and applied Mathematics*, held at the India International Center, New Delhi, under the auspices of Indian Society of Industrial and Applied Mathematics, India (ISIAM), December 4-6, 2004.
24. *16th Annual Conference of The Jammu Mathematical Society* held at Department of Mathematics, University of Jammu, Jammu, India, March 1-3, 2006.
25. *The Fifth China-Japan-Korea international Symposium on Ring Theory*, September 10-15, 2007, Tokyo (Japan).
26. *International Conference on Analysis and its Applications* held at the Department of Mathematics, Aligarh Muslim University, Aligarh from November 03-05, 2008.
27. *International Conference on Recent Trends in Mathematics and its Applications (ICRTMA-09)*, held at Jamia Millia Islamia, New Delhi, India, March 30-31 (2009).
28. *International Conference on Algebra and its Applications (ICAA-10)* held at the Department of Mathematics, Aligarh Muslim University, Aligarh, India, February 20-22, 2010.
29. *International Congress of Mathematicians*, Hyderabad, India September 19-27, 2010.
30. *The Sixth China-Japan-Korea international Symposium on Ring theory*, Kyunghee University, Suwon, South Korea, June 27-July 02, 2011.
31. *International Conference on Analysis and its Applications (ICAA-11)* held at the Department of Mathematics, Aligarh Muslim University, Aligarh, India, November 19-21, 2011.

32. *International conference on recent advances in Mathematics(ICRAM-2014)* held during January 20-23, 2014 at the department of mathematics, R.T.M., Nagpur University, Nagpur, India
33. *International Conference on recent trends in Algebra and Analysis with Application*, held at Aligarh Muslim University, Aligarh February 12-14, 2014.
34. *International Conference on Algebra, Geometry, Analysis and their Application* held at Jamia Millia Islamia, New Delhi, November 27-29, 2014.
35. *The XXXIInd Ohio State- Denison Mathematics conference*, held at The Ohio State University , Columbus, Ohio during May 9-11, 2014.
36. *International conference on semigroups, algebras and applications* held at Cochin University of Science and Technology, Cochi, September 17-19, 2015.
37. *International Conference on Analysis and its Applications (ICAA2015)*, held at the Department of Mathematics, Aligarh Muslim University, Aligarh,India, November 19-21, 2015.
38. *International Conference on Algebra and its Applications (ICAA2016)*, held at the Department of Mathematics, Aligarh Muslim University, Aligarh,India, November 12-14,2016.
39. *International conference on Algebra and its Applications 2017*, held at Mouley Ismael University, Errachidia, Morocco, April 26-28, 2017.
40. *Internatinal conference in Analysis and its Applications (ICAA2017)*, held at the Department of Mathematics, Aligarh Muslim University, Aligarh,India, October 20-22, 2017.
41. *Attended 83rd Annual Conference of Indian Mathematical Society-an International Meet*, held at Sri Venketeshwara University, Tirupati during December 12-15, 2017.
42. *Attended international conference on algebra and Applied Analysis*, held at Integral University, Lucknow, U.P. during August 9-11, 2-018.

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