

# CURRICULUM VITAE

## (DR. SHAKIR ALI)



### PRESENT ADDRESS

DR. SHAKIR ALI  
Assistant Professor  
Department of Mathematics  
Faculty of Science & Arts-Rabigh  
King Abdulaziz University  
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### DETAILS OF EMPLOYMENTS

- **Assistant Professor** in the Department of Mathematics, Faculty of Science & Arts - Rabigh, **King Abdulaziz University**, Jeddah from December 01, 2014 - Till date.
- **Senior Assistant Professor** in the Department of Mathematics, **Aligarh Muslim University**, from February 8, 2008 to November 30, 2014.
- **Assistant Professor** in the Department of Mathematics, **Aligarh Muslim University**, from July 24, 2006 to February 7, 2008.
- **Lecturer(as Guest Faculty)** in the Department of Mathematics, Aligarh Muslim University, from September 7, 2005 to May 2006.
- **Lecturer** in the Department of Mathematics, Aligarh Muslim University, from August 7, 2004 to July 15, 2005.
- **Research Associate** in the Department of Mathematics, Aligarh Muslim University, from January 25, 2003 to August 6, 2004.

### EDUCATION

- **Ph. D. (Mathematics)** from Aligarh Muslim University, Aligarh in the year 2002.  
*Topic of Ph. D. Thesis:* “ Study of Derivations and Commutativity of Rings”.
- **M. Phil. (Mathematics)** from Aligarh Muslim University, Aligarh in the year 1999.  
*Topic of M. Phil. Dissertation:* “A Study of Derivations in Associative Rings”.
- **M. Sc.(Mathematics)** from Aligarh Muslim University, Aligarh in the year 1996 with first division.
- **B. Sc.(Hon’s) (Mathematics, Physics & Chemistry)** from Aligarh Muslim University, Aligarh in the year 1993 with first division.

## ADDITIONAL EDUCATION

- Certificate course in “C++” **Programming**, from **Tata InfoTech Training Facility** Computer Center, Aligarh Muslim University, Aligarh in the year 2003.
- **GATE (Mathematics)** conduct by Indian Institute of Technology(IIT), Kanpur in the year 2001 with **All India Rank-93**.

## COMPUTER LITERACY

- Certificate course in “ C++ ” **Programming**, from **Tata InfoTech Training Facility** Computer Center, Aligarh Muslim University, Aligarh in the year 2003.
- Certificate course in **Computer fundamentals**, from **Duty Society Computer Center**, Aligarh Muslim University, Aligarh in the year 2000.
- **Environment worked on** : DOS, Windows 2000.
- **Packages known**: Windows 3.11, WordStar, MSword, MSOffice, LA-TeX, AMS-TeX, PCTeX.

## LANGUAGES KNOWN

- *English, Hindi and Urdu*: Read, Write and speak fluently.

**TEACHING EXPERIENCES:** More than 11 Years(Since 2003)

**RESEARCH EXPERIENCES:** More than 15 Years(Since 1999)

## RESEARCH PUBLICATIONS

- Number of Papers **Published** **62** (Refer to Annexure – I)
- Number of Paper **Accepted** : **04** (Refer to Annexure – I)
- Number of Papers submitted for Publication: **06** (Refer to Annexure – I)
- Invited Talks/Papers presented at Conferences:  
**36** (Refer to Annexure – II)
- Seminars or workshops and conferences attended:  
**42**(Refer to Annexure– III)

## RESEARCH GUIDANCE: 03 Ph. D. and 02 M. Phil Students

- Mr. Abdul Nadim Khan, *Ph.D. Awarded in 2015*,  
**Topic of Ph. D. Dissertation:** A study of derivations in rings with involution.
- Mr. Nadeem Ahmad Dar, *Ph.D. Awarded 2014*,  
**Topic of Ph. D. Dissertation:** A study of additive mappings in rings with involution.
- Mr. Mohammad Sahahuddin Khan, *Ph. D. Awarded 2013*,  
**Topic of Ph. D. Dissertation:** On derivations in certain classes of rings.
- Mr. Mohammad Sahahuddin Khan, *M. Phil. Awarded in 2009*,  
**Topic of M. Phil Dissertation:** On derivations in rings and near  $\ast$ -rings.
- Mr. Nadeem Ahmad Dar, *M. Phil. Awarded in 2010*,  
**Topic of M. Phil Dissertation:** On derivations in rings with involution.

## AWARDS AND FELLOWSHIPS

- **Best Research Paper Presentation Award** for the year 2008 at the 74<sup>th</sup> Annual Conference of the Indian Mathematical Society(IMS) during December 27-30, 2008 held at University of Allahabad, Allahabad.
- **Best Research Paper Presentation Award** for the year 2003 at the 69<sup>th</sup> Annual Conference of the Indian Mathematical Society(IMS) during December 26-29, 2003 held at University of Lucknow, Lucknow.
- **Research Associateship(PDF)** from University Grants Commission (January, 2003 - August 2004), Department of Mathematics, Aligarh Muslim University, Aligarh.
- **Junior Research Fellowship(JRF)** from University Grants Commission (2001-2002 ), Department of Mathematics, Aligarh Muslim University, Aligarh.
- **Junior Project Fellow(JPF)** from February 16, 1999 to May 31, 1999 (sponsored by MHRD through National Institute of Education Planning and Administration, New Delhi), Regional Institute of Education, Ajmer (Rajasthan).
- **National Board of Higher Mathematics(NBHM)** Merit Scholarship at M.Sc. for two years (1994-1996), Department of Mathematics, Aligarh Muslim University, Aligarh.

## RESEARCH PROJECTS/GRANTS (O4)

- **Principal Investigator** of a Major Research Project “*A Study of derivations in rings & Algebras with Involution and its Applications*” funded by the **University Grants Commission (UGC)** ( F. No. 39-37/2010(SR)) [with amount Rs. 8,94,800/=] for three years (February 1, 2011 to January 31, 2014).
- **Co-Investigator** of a Joint Major Research Project “ *Derivations and related mappings in rings and algebras*” supported by **Indo-Slovenian** Inter-Governmental Programme of cooperation in Science and Technology under the auspices of the Ministry of Science and Technology (**DST**), **India** and Ministry of Higher Education Science and Technology (**MHEST**), **Republic of Slovenia (Project No. INT/SLOVENIA/P-18/2009)** for three years (April 1, 2011 to March 2014).
- **Co-Investigator in 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**) (Project No. **SR/S4/MS:556/08**) for three years (July 21, 2009 to July 20, 2012).
- **Co-Investigator** of a Major Research Project “ generalized derivations in rings and its applications” funded by the **University Grants Commission(UGC)(F. No. 36-8/2008(SR))** during 1.5.2009-- 15.10.2010.

## FIELDS OF SPECIALIZATION / RESEARCH INTERESTS

**Algebra:** Derivations in Associative Rings, \*-Rings, Near Rings

**Functional Analysis:** Functional identities, Derivations on Banach Algebras, and \*-algebras.

**Coding theory & Cryptography**

## TOPICS TAUGHT

Theory of Rings, Theory of Modules, Abstract Algebra, Linear Algebra, Numerical Analysis, Calculus, Advanced Calculus, Co-ordinate Geometry, Trigonometry, Vector Analysis, “ C ”- Programming & Mathematical Algorithm, Theory of matrices and Determinants, Integral Equations and Differential Equations.

## INSTITUTES / UNIVERSITY VISITS

- The Department Mathematics, University of Tabuk, **Tabuk**, KSA, May 30-June 2, 2015.
- The Department Mathematics, The Ohio State University, **Columbus/Lima**, USA, May 8-17, 2014
- Department of Mathematics, Pamukkale University, **Turkey**, during August 16-18, 2013.
- Department of Mathematics, University of Graz, **Austria**, during October 1-4, 2012.
- The Department of Mathematics, University of Messina, **Italy**, during September 28-30, 2012.
- Faculty of Entrepreneurship, University of Ljubljana, Maribor **Slovenia**, during September 18-25, 2012.
- The Institute of Mathematical Sciences(**IMSc**) Chennai, during July 13-22, 2012.
- Harish-Chandra Research Institute(**HRI**), **Allahabad**, during December 20-27, 2012.
- Indian Statistical Institute(**ISI**), Delhi Center, during January 10-15, 2012.
- The Department Of Mathematics, University of Maribor, **Slovenia**, EU, during September 12- October 11, 2011.
- The Department Of Mathematics, Pusan National University, **Busan**, **South Korea**, during July 3-10, 2011.
- Department Of Applied Mathematics, Kyung Hee University, **Suwon**, **South Korea**, during June 26-July 2, 2011.
- The Department of Mathematics, Indian Institute of Science(**IISc**), Bangalore, India, during June 12-30, 2009.
- Harish-Chandra Research Institute(**HRI**), **Allahabad**, India during December 18-30, 2008.
- School of Mathematics, Tata Institute of Fundamental Research (**TIFR**) Bombay, India during June, 2000.
- Indian Statistical Institute(**ISI**), Bangalore Center, India during December 11-15, 2003.
- The Department of Mathematics, Indian Institute of Science(**IISc**), Bangalore, on the occasion of the first India-AMS Mathematics Meeting on December 16-20, 2003.

## MEMBERSHIP OF VARIOUS ORGANIZATIONS

- **Member:** American Mathematical Society (**AMS**), since January 2015
- **Life Member:** Indian Mathematical Society (**IMS**)
- **Life Member:** Ramanujam Mathematical Society (**RMS**)
- **Life Member:** Indian Science Congress Association(**ISCA**)
- **Life Member:** Calcutta Mathematical Society (**CMS**)

## HONOURS AND PROFESSIONAL SERVICES

- **Editor:** Journal Algebra and Computation Application(JACA), <http://91.187.98.171/ilirias/jaca/authors.html>, Since 2011.
- **Editor:** American Journal of Applied Mathematics and Statistics (AJAMS),([http://www.sciepub.com/journal/AJAMS/Editorial Board](http://www.sciepub.com/journal/AJAMS/Editorial_Board)), Since January 2013.
- **Editor:** Universal Journal of Computational Mathematics (UJCM), ([http://www.hrpub.org/journals/jour\\_info.php](http://www.hrpub.org/journals/jour_info.php)), Since July 2013.
- **Editor:** Applied Science Reporter (ASR), ([http://www. Pscipub.com/Journals/default.aspx](http://www.Pscipub.com/Journals/default.aspx)), Since January 2014.
- **Editor:** Pure and Applied Mathematics Journal, <http://www.sciencepublishinggroup.com/j/pamj>, since March 2014
- **Reviewer** for the American Math. Reviews.
- **Acting as REFEREE** for the following periodicals:

Algebra Colloquium, Questiones Math., Indian Journal of Mathematics, International Journal Electronic Algebra, Bulletin of the Allahabad Mathematical Society, Turkish Journal of Mathematics, International Journal Algebra, East West J. Math., Mediterr. Journal of Mathematics, Southeast Asian Bull. Math., Journal Algebra and Computation Application (JACA), J. Adv. Res. Pure Math (JARPM), Bull. Korean Math. Soc., International Journal of open Problems in Computer Science and Mathematics (IJOPCM), Bull. Iranian Math. Soc., International Math. Forum., Comm. Koran Math. Soc., Journal Pure and Applied Mathematics, Internat. J. Math & Math. Sci., Bull. Malaysian Math. Soc., Kyungpook Math. J., Palest. J. Math, Bol. Soc. Parana. Mat., Demonstratio Math., Asian-European Journal of Mathematic, Advances in Algebra, Aequationes Math., J. Egyptian Math. Soc., International Journal Math. Tamkang J. Math., Journal of Algebra and Computational Applications, Georgian Mathematical Journal(GMJ), Asian Journal Mathematics(AJM), Journal Algebraic System(JAS), Journal Computational Math. Analysis (JCMA), Canadian *Journal of Mathematics* (CJM) etc.

## FOREIGN VISITS:

<b>Country</b>	<b>Purpose</b>	<b>Duration</b>
• KSA	E. O. L.	Dec. 1, 2014-Till date
• KSA	To visited and delivered Talks at Department of Mathematics, University of Tabuk <b>Tabuk, KSA</b>	May 30-June 2, 2015
• USA	To visited and delivered Talks at Department Of Mathematics, The Ohio State University, <b>Columbus/ Lima, USA</b>	May 8-17, 2014
• Turkey	To visited and delivered Series of Lectures at Department Of Mathematics, Pamukkale University, <b>Denizli, Turkey</b>	August 15-18, 2013
• Turkey	Invited to deliver a talk International Conference on algebra in Honour of P. Smith and J. Clark 70 <sup>th</sup> Birthday, <b>University of Balikesir, Turkey</b>	August 12-15, 2013
• Slovenia	To visited and delivered Series of Lectures, at Department Of Mathematics, University of Maribor, <b>Slovenia</b>	Sept 17- Oct 11, 2012
• Italy	To visited and delivered A talk, at Department Of Mathematics, University of Messina, <b>Italy</b>	Sept 28-30, 2012
• Austria	To visited and delivered A talk, at Department Of Mathematics, University of Graz, <b>Austria</b>	Oct 1-2, 2012
• Slovenia	To visited and delivered Series of Lectures, at Department Of Mathematics, University of Maribor, <b>Slovenia</b>	Sept 12- Oct 11, 2011
• South Korea	To visited and delivered Series of Lectures at Department Of Mathematics, Pusan National University, <b>Busan, South Korea</b>	July 3-8, 2011
• South Korea	Invited to deliver a talk 6 <sup>th</sup> CJK-ICRT-2011, Kyung Hee University, <b>Suwon, South Korea</b>	June 27-July 2, 2011
• Japan	Present a paper in the The Fifth China-Japan-Korea 5 <sup>th</sup> ISORT a <b>Tokyo, Japan</b>	Sept.10-15, 2007

List of Research Publications**[A] Paper Published (61)**

1. On rings and algebras with derivations, **J. Algebra Appl.** 15(6)(2016) 1650107(10 pages), DOI: 10.1142/S0219498816501073(Jointly with M.S. Khan, A. N. Khan and N. M. Muthana).
2. On Jordan  $*$ -mappings in rings with involution, **Journal Egyptian Math. Soc.** 24 (2016), 15-19 DIO:10.1016/j.joems.2014.12.006 (Jointly with N. A. Dar). ISSN: 1110-256X.
3. On derivations and commutativity of prime rings with involution, **Georgian Math. J.** (1-2)(2015),1-9 [DOI 10.1515/gmj-2015-0016](https://doi.org/10.1515/gmj-2015-0016) (Jointly with N. A. Dar and M. Ascii). ISSN: 1572-9176.
4. On centralizers of prime rings with involution, **Bull. Iranian Math. Soc.** 41(6)(2015), 1465-1475 (Jointly with N. A. Dar).
5. On strong commutativity preserving like maps in rings with involution **Miskolc Math. Notes.** 16(1) (2015), 17-24 (Jointly with N.A. Dar and A. N. Khan).
6. On commutativity of Banach algebra with derivations, **Bull. Austral. Math. Soc.** 91 (2015), 419-425, DIO:10.1017/S0004972715000118 (Jointly with A. N. Khan) ISSN:0004-9727.
7. On Lie ideals with multiplicative(generalized)-derivations in prime and semiprime rings, **Beitr Algebra Geom**, 56(1) (2015), 325-337, DOI: [10.1007/s13366-013-0186-y](https://doi.org/10.1007/s13366-013-0186-y) (Jointly with B. Dhara, N. A. Dar and A. N. Khan ). ISSN: 0138-4821.
8. A note on Jordan left  $*$ -centralizers in rings with involution, **International J. Algebra** 9(1)(2015), 15-23 (Jointly with A. N. Khan and M. S. Khan). ISSN: 1312-8868.
9. Generalized skew derivations with nilpotent values in prime rings, **Communications in Algebra** 42(2014), 1606-1618 (ID 745868) [DOI 10.1080 /00927872.2012.745868](https://doi.org/10.1080/00927872.2012.745868) (Jointly with A. Ali and V. De Filippis) ISSN: 0092-7872.
10. On left centralizers of prime rings with involution **Palest. J. Math.** 3(Spec 1) (2014), 505-511 (Jointly with N. A. Dar) ISSN: 2219-5688.
11. On  $*$ -centralizing mappings in rings with involution, **Georgian Math. J.** 21(1)(2014), 25–28 [DOI 10.1515/gmj-2014-0006](https://doi.org/10.1515/gmj-2014-0006) (Jointly with N. A. Dar). ISSN: 1572-9176.
12. Generalization of Herstein Theorem and its applications to range inclusion problems, **Journal Egyptian Math. Soc.** 22(3)(2014), 322–326 [http://dx.doi.org /10.1016/j.joems.2013.11.003](http://dx.doi.org/10.1016/j.joems.2013.11.003) (Jointly with, M. Salahuddin Khan and M. Al-Shomrani). ISSN: 1110-256X.
13. Commutativity of rings involving additive mappings, **Quaestiones Math.**



**37 (2)(2014), 215–229 DOI: 10.2989/16073606-2013** (Jointly with M. Ashraf, M. Salahuddin Khan and J. Vukman). ISSN: 1607-3606.

14. Commutativity of rings involving additive mappings, **Quaestiones Math.** **371 (2)(2014), 215–229 DOI: 10.2989/16073606-2013** (Jointly with M. Ashraf, M. Salahuddin Khan and J. Vukman). ISSN: 1607-3606.
15. On generalized  $(m, n)$ -derivations and generalized Jordan  $(m, n)$ - derivations in rings, **Algebra Colloq.** **21(3) (2014), 411-420**, DOI: 10.1142/S1005386714000352 (Jointly with Ajda Fosner). ISSN: 1005-3867.
16. On prime and semiprime rings with additive mappings and derivations, **Universal Journal of Computational Mathematics** **2(3)(2014), 48-55 DOI 10.13189/ujcmj.2014.020302** (Jointly with B. Dhara and, M. Salahuddin Khan). ISSN: 2332-3035.
17. Pair of derivations on semiprime rings with application to Banach algebras, **J. Algebra Comput. Appl.** **3(1) (2013), 1–13** (Jointly with, M. Salahuddin Khan and V. Difiippis). ISSN: 2217-6764.
18. On generalized Jordan triple  $(\alpha, \beta)^*$ -derivations and related mappings, **Mediterr. J. Math.** **10 (2013), 1657-1668, DOI 10.1007/s00009-013-0277-x** (Jointly with A. Fosner, M. Fosner and M. Salahuddin Khan). ISSN: 1660-5446.
19. On Multiplication (generalized)-derivations in prime and semiprime rings, **Aequationes Mathematicae** **86 (2013), 65–79 DOI : 10.1007/s00010-013-0205-y** (Jointly with B. Dhara). ISSN: 0001-9054.
20. Jordan left  $*$ -centralizers of prime and semiprime rings with involution **Beitr Algebra Geom**, **54(2013), 609-624 DOI 10.1007/s13366-012-0117-3** (Jointly with N. A. Dar and J. Vukman). ISSN: 0138-4821.
21. Identities with generalized derivations in semiprime rings, **Demonstratio Math.** **46(4) (2013), 453-460** (Jointly with B. Dhara), ISSN: 0420-1213.
22. A note on commutativity of rings with additive mappings, **Arab J. Math. Sci.** **19(2)(2013), 199-204 <http://dx.doi.org/10.1016/j.ajmsc.2012.10.002>** (Jointly with Ajda Fosner and M. S. Khan). ISSN: 1319-5166
23. On Orthogonal  $(\sigma, \tau)$ -Derivations in Semiprime **Gamma**-Rings, **Int. Electronic J. Algebra** **13(2013), 1-17** (Jointly with M. Salahuddin Khan). ISSN: 1306-6048.
24. On generalized left  $(\alpha, \beta)$ -derivations in rings, **Bull. Iranian Math. Soc.** **38(4)(2012), 893-905** (Jointly with M. Ashraf, N. Rehman and M. Rehman). ISSN: 1017-060X.
25. On  $n$ -centralizing generalized derivations in semiprime rings with applications to  $C^*$ -algebras, **J. Algebra Appl.** **11(6) (2012), 1250111(11 pages) <http://www.worldscientific.com/doi/abs/10.1142/S0219498812501113>**(Jointly with B. Dhara) **MR2997453**. ISSN: 0219-4988.
26. On derivations in semiprime rings, **Algebr. Represent. Theory** **15 (2012), no. 6, 1023--1033** (Jointly with H. Shuling), **MR#2994014**. ISSN: 1386-923X.
27. Generalized  $(\alpha, \beta)^*$ -derivations and related mappings in Semiprime  $*$ -Rings, **Asian-Eur. J. Math.** **5( 2) (2012) 1250015 (10 pages)** (Jointly with M. Ashraf, and A. Khan), **MR#2959842**. ISSN: 1793-5571.

28. On generalized  $(\theta, \phi)$ -derivations in semiprime rings with involution, **Math. Slovaca**, **62(3)** (2012), 451-460, DOI: 10.2478/s12175-012-0021-1 (Jointly with M. Ashraf, N. Rehman and M. Rehman), **MR#2915609**. ISSN: 0139-9918.
29. On generalized  $*$ -derivations in  $*$ -rings, **Palest. J. Math.** **1** (2012), no. 1, 32--37 **MR#2946179**. ISSN: 2219-5688.
30. On left  $\alpha$  -multipliers and commutativity of semiprime rings, **Comm. Korean Math. Soc.** **27(1)** (2012), 69-76 <http://dx.doi.org/10.4134/CKMS.2012.27.1.069> (Jointly with H. Shuling), **MR#2919013**. ISSN: 1225-1763.
31. On  $*$ -bimultipliers, generalized  $*$ -biderivations and related mappings, **Kyungpook Math. J.** **52(3)**(2011), 301-309 (<http://dx.doi.org/10.5666/KMJ.2011.51.3.301>) (Jointly with M. Salahuddin Khan) **MR#2843015** (2012h:16078). ISSN: 1225-6951.
32. Nilpotent and invertible values in semiprime rings with Generalized Derivations *Aequationes Mathematicae*, **82(1-2)** (2011), 123–134 (DOI 10.1007/s00010-010-0061-y) (Jointly with Asma Ali and Vincenzo De Filippis), **MR#2807037** (2012d:16058). ISSN: 0001-9054.
33. A note on Jordan Triple  $(\alpha, \beta)$ \*-derivations in  $H^*$ -algebras, *East- West J. of Mathematics*, **13(2)**( 2011), 139-146. ISSN: 1513-489X.
34. Jordan mappings in rings: A survey, *Algebra and its Applications*, Narosa Publishing Pvt. Led. New Delhi (Eds. Afzal Beg and Mohd. Ashraf) (2011), 5-25 (Jointly with M. Ashraf and N. Rehman).
35. On generalized  $(\sigma, \tau)$ -biderivations in rings, **Asian-European Journal of Mathematics** **4(3)** (2011), 389–402 (Jointly with M. Ashraf, N. Rehman and M. Rehman) **MR#2842650**. ISSN: 1793-5571.
36. On generalized left derivations in rings and Banach algebras *Aequationes Mathematicae*, **81(3)** (2011), 209-226 (DOI 10.1007/s00010-011-0070-5), **MR#2800958** (2012d:16120). ISSN: 0001-9054.
37. Some commutativity theorems concerning additive mappings and derivations on semiprime rings, *Contemporary ring theory 2011*, 135--143, **World Sci. Publ.**, Hackensack, NJ, 2012 (Eds. Kwak, & Lee) (Jointly with B. Dhara and A. Fosner) **MR2987635**.
38. On generalized Jordan  $(\alpha, \beta)$ -derivation that act as homomorphisms or anti-homomorphisms, **Journal of Algebra and Computational Applications (JACA)**, 1(1)(2011), 13-19, **MR#2862508** (2012j:16065). ISSN: 2217-6764.
39. On higher derivations: A Survey, *Int. J. Math. Game Theory Algebra*, 19(5-6)(2011), 359–379 (Jointly with M. Ashraf and C. Haetinger), **MR#2814896** (2012c:16125).
40. On generalized  $(\alpha, \beta)$ -derivation in prime rings, *Algebra Colloq.* 17 (Spec 1) (2010), 865-874, (Jointly with M. Marubayashi, M. Ashraf and N. Rehman), **MR#2737572** (2012d:16125). ISSN: 1005-3867.
41. On Jordan  $(\alpha, \beta)$ \* -derivations in Semiprime  $*$  -rings, *International J. Algebra* 4(3)(2010), 99-108 (Jointly with A. Fosner) **MR#2577459** (2011a:16060). ISSN: 1312-8868.
42. On semiprime rings with generalized derivations, *Bol. Soc. Paran. Mat.* 28 (2) (2010), 25-32 (Jointly with M. Ashraf, N. Rehman and M. Rahman) **MR#2727428** (2011k:16044). ISSN: 0037-8712.

43. On  $(\sigma, \tau)$ - Lie Ideals with Generalized Derivations in Rings, *International J. Algebra* 19(3) (2009), 935 - 944 (Jointly with M. Ashraf, N. Rehman and M. Rehman), **MR#2576860 (2011b:16131)**. ISSN: 1312-8868.
44. On  $(\alpha, \beta)^*$ -derivations in  $H^*$ -algebras, *Advances in Algebra*, 2(1)(2009), **23-31**(Jointly with M. Ashraf). ISSN: 0973-6964.
45. On generalized Jordan left derivations in rings, *Bull. Korean Math. Soc.*, 45(2) (2008), 253-261 (Jointly with M. Ashraf), **MR#2419072 (2009b:16079)**. ISSN: 1015-8634.
46. On  $(\sigma, \tau)$ -derivations in prime near rings-II, *Sarajevo Journal of Mathematics*, 4(16) (2008), 23-30 (Jointly with M. Ashraf) **MR#2428485 (2009g:16062)**. ISSN: 1840-0655.
47. Jordan  $\alpha$ -centralizers in rings and some applications, *Bol. Soc. Paran. Mat.* 26 (1) (2008), 71-80 (Jointly with C. Haetinger), **MR#2505456 (2010e:16033)**. ISSN: 0037-8712.
48. On left multipliers and the commutativity of prime rings, *Demonstratio Math.*, 41(4) (2008), 10-22 (Jointly with M. Ashraf) **MR#2484501 (2010a:16031)**. ISSN: 0420-1213.
49. On generalized  $(\alpha, \beta)$ -derivations in rings and modules, *Proceedings of 5<sup>th</sup> China-Japan-Korea Conference, World Scientific*, Singapore (2007), 165-172 (Eds. Marubayashi, Masaike, Oshiro & Sato), (Jointly with M. Ashraf and N. Rehman). **ISBN: 10 981-281-832-4**.
50. Some commutativity Theorems for Rings with generalized derivations, *Southeast Asian Bull. Math.* 31 (2007), 415-421 (Jointly with M. Ashraf and A. Ali), **MR#2327138 (2008b:16054)**. ISSN: 0129-2021.
51. On derivations in rings and their Applications, *The Aligarh Bull. Math.*, 25(2) (2006), 79-107 (Jointly with M. Ashraf and C. Haetinger), **MR#2537802 (2010g:16071)**. ISSN: 0304-9787.
52. On Lie ideals and generalized derivations of prime ring, *East West Journal of Mathematics*, 7(1) (2005), 93-98 (Jointly with A. Ali and R. Rani), **MR#2279706 (2007g:16051)**. ISSN: 0125-2526.
53. On  $(\sigma, \tau)$ -Derivations of prime near rings, *Trends in Theory of Rings & Modules, Anamaya Publishers*, New Delhi, (2005), 5-10 (Eds. S. Tariq Rizvi & S. M. A. Zaidi), (Jointly with M. Ashraf). **ISBN: 81-88342-23-8**
54. On Lie ideals and generalized  $(\theta, \phi)$ -derivations in prime rings, *Communication in Algebra*, 32 (8) (2004), 2977-2985 (Jointly with M. Ashraf and A. Ali), **MR#2102162 (2005j:16026)**. ISSN: 0092-7872.
55. On Jordan ideals and left  $(\theta, \theta)$ -derivations in prime rings, *International J. Math. & Math. Sciences*, 37 (2004), 1957-1964 (Jointly with S. M. A. Zaidi and M. Ashraf), **MR#2100888 (2005i:16070)**.
56.  $(\sigma, \tau)$ -Derivations on prime near-rings, *Arch. Math. (Brno)*, 40 (2004), 281-286 (Jointly with M. Ashraf and A. Ali), **MR# 2107023**. ISSN: 0044-8753.
57. On Lie ideals with derivations as homomorphisms and anti-homomorphisms, *Acta Math. Hungar.*, 101(1-2) (2003), 79-82 (Jointly with A. Ali and N. Rehman), **MR#2011464**. ISSN: 0236-5294.
58. On Lie ideals and Jordan generalized derivations of prime rings, *Indian J. Pure & Appl. Math.*, 34(2) (2003), 291-294 (Jointly with M. Ashraf and N. Rehman), **MR#2022241**. ISSN: 0019-5588.
59. Decomposition theorems for periodic near-rings, *Rad. Math.*, 12 (2003), 5-11 (Jointly with A. Ali and R. Rani), **MR#2022241**. ISSN: 1840-0655.

60. Jordan automorphisms on Jordan ideals of prime rings, *J. Jilin Univ. Sci.*, 41(10), (2003), 21-24 (Jointly with M. Ashraf and A. Ali) **MR#1965768 (2004b:16052)**. ISSN: 1671-5489.
61. Jordan automorphism on Lie ideals of prime rings, *The Aligarh Bull. Maths.* 21 (1) (2002), 1-6 (Jointly with A. Ali and N. Rehman), **MR#1956152**. ISSN: 0304-9787.
62. On Jordan left derivation of Lie ideals in prime rings, *Southeast Asian Bull. Math.* 25 (2001), 379-382 (Jointly with M. Ashraf and N. Reman). ISSN: 0129-2021.

**[B] Papers Accepted for Publication(04)**

1. A characterization of generalized derivations on prime rings, **Comm. Algebra** 44(4)(2016), 1-10: DOI: 10.1080/00927872.2015.1065861 (Jointly with Alahmadi A., Khan A. N., Khan M. S.)
2. On Jordan left \*-centralizers in semiprime rings with involution and its applications to \*-prime rings, **Algebras, Groups and Geometries'** (2015) **accepted for publication** (Jointly with B. Dhara and S. Mondal).
3. A characterization of left \*-centralizers in rings with involution, **Applied Mathematics & Information Sciences** (2015)(AMIS) **accepted for publication**, (Jointly with A. Alahmadi, Husain A. and A. N. Khan).
4. Hypercube Emulation of Interconnection Networks Topologies, **Mathematical Methods in the Applied Sciences** (MMAS) **accepted for publication (2015)** (Jointly with A. Alahmadi, Husain A. M. Deza, M. Dutour and P. Sole).

**[C] Papers Communicated for publication(06)**

1. On Jordan left \*-derivations in prime rings with involution, **Questiones Mathematicae** (Jointly with N. A. Dar).
2. An analogue of  $\mathbf{Z}_4$  – Goethals code in non-primitive, JAA (Jointly with A. Alahmadi, Husain A., Hellesteth T., Hijazi R., Li C., Solé P.).
3. Generalization of Herstein Theorem in rings with involution, **J. Algebra. Appl.** (Jointly with A. N., Khan, and N. A., Dar).
4. On generalized derivations and commutativity of prime rings with involution, **Periodica Mathematica Hungarica** (Jointly with Khan A. N.).
5. On generalized derivations in prime rings, **J. Algebra. Appl.** (Jointly with A. Alahmadi, Husain A. and A. N. Khan).
6. On Generalized derivations and multipliers on Operator algebras with involution, MMAS (Jointly with A. Fosner, and W. Jing).

## Annexure – II

### **Invited Speaker in Conferences/Mathematics Seminars/ Institutes/Universities**

1. *Delivered a talk* “ On derivations in rings and algebras ”, The Faculty of Science-Arts, Rabigh, King Abdulaziz University, Saudi Arabia, **KSA**, December 14, 2015.
2. *Delivered an invited talk* “Generalized derivations in rings and their applications”, International Workshop on Pure and Applied Mathematics (**IWPAM-2015**), University of Tabuk, **Tabuk**, **KSA**, May 31-June 2, 2015.
3. *Delivered a talk* “ On derivations in  $\ast$ -rings and their applications ” , The Ohio State University, **Lima**, **USA**, May 15, 2014.
4. *Delivered a talk* “ On centralizing derivations in rings with applications”, The 32th Ohio State – Dension Mathematics Conference, The Ohio State University, **Columbus**, **USA**, May 9-11, 2014(<http://www.math.osu.edu/conferences/dension32>).
5. *Delivered Series of Lectures* “ On n-centralizing derivations in rings with applications to  $C^*$ -algebras”, The Department of Mathematics, Pamukkale University, **Denizli**, **Turkey** , August 16-18, 2013.
6. *Delivered a talk* “ On commuting and centralizing derivations in rings and algebras”, The International Conference on algebra in Honour of P. Smith and J. Clark’s 70<sup>th</sup> Birthday(**ICAPSJC**), organized by the Department of Mathematics, Balikesir University, **Turkey** , August 12-15, 2013.

7. *Delivered a talk* “ On left derivations and related maps in rings and Banach algebras”, The Department of Mathematics, University of Messina, **Italy** , September 28, 2012.
8. *Delivered a talk* “ On a generalization of the notion of centralizing mappings in rings”, The Department of Mathematics and Computer Science, University of Maribor, **Maribor, Slovenia**, September 26, 2012.
9. *Delivered a Series of Lectures* “ On generalized left derivations in Rings and Banach algebras”, The Department of Mathematics, Geacollege, University of Ljubljana, **Ljubljana, Slovenia**, September 18-25, 2012.
10. *Delivered a talk* “ On commuting and centralizing mappings in rings and algebras”, The Institute of Mathematics Science, **Chennai, India**, July 19, 2012.
11. *Delivered a Series of Lectures* “ On generalized left derivations in Rings and Banach algebras”, The Department of Mathematics, Geacollege, University of Ljubljana, **Ljubljana, Slovenia**, September 18-25, 2012
12. *Delivered a series of Lecture* “ On commuting mapping in rings and algebras”, The Harish-Chandra Research Institute(**HRI**), **Allahabad**, May 20-27, 2012.
13. *Delivered a Series of Lectures* “ On generalized  $(\alpha, \beta)$  derivations and related maps in Rings”, The Department of Mathematics, Pusan National University, Busan, **South Korea**, July 3-6, 2011.
14. *Delivered a talk* “ On derivations in  $*$ -rings and  $H^*$ -algebras”, The 6<sup>th</sup> China-Japan-Korea International Conference on Ring and Module Theory (**ICRT-11**), Kyung Hee University at Suwon, **South Korea**, June-27 to July 2, 2011.
15. *Delivered a talk* “ *On Some additive mappings in rings with involution*”, National Conference on Recent Advances in Mathematics and Their Applications from February 12-13, 2011 held at Department of Mathematics, Shri Varshney College, Aligarh.

16. *Delivered a talk “ On Some additive mappings in rings with involution”*, International Conference on Algebra and its Applications (**ICAA-10**) from February 20-22, 2010 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
17. *Delivered a seminar Lecture “ On \*-derivations in \*-algebras”*, The Harish-Chandra Research Institute(**HRI**), **Allahabad**, December 24, 2008.

Annexure – III

**Papers Presented at Conferences/ Symposiums and Seminars**

1. *On additive mappings in prime rings with involution*, International Conference on Recent Trends in Algebra and Analysis with Applications (**ICRTAAA-2014**) from February 12-14, 2014 held at the Department Mathematics, Aligarh Muslim University, Aligarh, India(**Abs. No. 95 , p-37**).
2. *On Jordan \*-derivations in Rings with involution*, **International Congress of Mathematicians (ICM)-2010** from August 19-27, 2010 held at Hyderabad International Convention Centre (HICC), and organized by the University of Hyderabad, Hyderabad, India (**Abs. No. -1, p-13**).
3. *On some generalized additive mappings in \*-rings*, International Conference on Algebra and its Applications (**ICAA-10**) from February 20-22, 2010 held at the Department Mathematics, Aligarh Muslim University, Aligarh, India(**Abs. No. 05, p-2**).
4. *On derivations in Operator Algebras*, International Conference on “**Ramanujam Rediscovered 2009**” from June 1-5, 2009 held at **Infosys Campus** and Indian Institute of Information Technology (**IIIT**), Bangalore.

5. *On Jordan Triple  $(\alpha, \beta)$ -derivations in Banach  $*$ -Algebras*, 74<sup>th</sup> Annual Conference of the Indian Mathematical Society (IMS) from December 27-30, 2008 held at the Department of Mathematics, University of Allahabad, Allahabad (**Abs. No. AMU-1, p-14**).
6. *On Jordan  $*$ -derivations in Banach Algebras*, International Conference on Analysis and its Applications (ICAA-08) from November 3-5, 2008 held at the Department Mathematics, Aligarh Muslim University, Aligarh (**Abs. No., 5, p-2**).
7. *On generalized  $(\alpha, \beta)$ -derivations in certain classes of rings*, 23<sup>rd</sup> Annual Conference of Ramanujan Mathematical Society from May 19-21, 2008, held at Department of Mathematics, Indian Institute of Technology, Kanpur (**Abs. No. -3, p-01**).
8. *On generalized Jordan left derivations in certain classes of rings*, The Fifth China-Japan-Korea International Symposium on Ring Theory (ISORT) from September 10-15, 2007, held at the National Olympic Memorial Youth Center (NYC), Tokyo, JAPAN (**Abs. -2, p-02**).
9. *Commutativity of rings with Generalized left derivations*, 71<sup>st</sup> Annual Conference of the Indian Mathematical Society from December 26-29, 2005 held at the Department of Mathematics, Indian Institute of Technology, Roorkee (**Abs. PZ-5, p-71**).
10. *On left derivations on ring*, 8<sup>th</sup> Conference of the International Academy of Physical Sciences(CONIAPS-VIII) Jointly Organized by C.C.S., University, NICE Society Institutions, Meerut and International Academy of Physical Sciences, Allahabad, from December 29-31, 2005 held at C.C.S., University, Meerut (**Abs. MA-2, p-59**).
11. *On left derivations and commutativity of rings*, 19<sup>th</sup> Annual Conference of Ramanujan Mathematical Society from July 21-24, 2004, Department of Mathematics, Institute of Basic Sciences(Dr. B. R. Ambedkar, Agra University), Khandari, Agra (**Abs. No., 4, p-10**).
12. *On  $(\sigma, \tau)$ -Derivation in near-rings*, 70<sup>th</sup> Annual Conference of the Indian Mathematical Society from December 26-29, 2004 held at the



Department of Mathematics & Statistics, Jai Narain Vyas University, Jodhpur (**Abs. S-B-1, p-01**).

13. *On left  $(\theta, \varphi)$ -derivations and commutativity of prime rings*, 69th Annual Conference of the Indian Mathematical Society, from December 26-29, 2003 held at the Department of Mathematics & Astronomy, University of Lucknow, Lucknow (**Abs. S-B-2, p-59**).
14. *On left  $(\theta, \varphi)$ -derivations in prime rings*, The Joint India-AMS Mathematical Meetings from December 17-20, 2003 held at J.N. Tata Auditorium, Indian Institute of Science, Bangalore (**Abs. No-XVI-19, p-81**).
15. *On generalized derivations and Jordan ideals of prime rings*, International Symposium on Theory of Rings and Modules from May 7-8, 2003 held at the Department Mathematics, Aligarh Muslim University, Aligarh (**Abs. No-3, p-2**).
16. *On Lie ideals and generalized derivations in rings*, Conference on Recent Trends in Algebra and Analysis from March 03-05, 2003, held at the Department of Mathematics, Aligarh Muslim University, Aligarh (**Abs. No-14, p-12**).
17. *On  $(\sigma, \tau)$ -derivations on near rings*, 68th Annual Conference of the Indian Mathematical Society from January 20-23, 2002 held at the Department of Mathematics, Shivaji University, Kolhapure (**Abs. NO., S-B-5, p-16**).
18. *Generalized Jordan derivations on Jordan ideals in prime rings*, 67th Annual Conference of the Indian Mathematical Society from January 27-30, 2002 held at the Department of Mathematics, Aligarh Muslim University, Aligarh (**Abs. No., S-B-3, p-6**).
19. *Jordan automorphisms on Lie ideals of rings*, Conference on Emerging Trends in Mathematics, from March 24-26, 2001 held at the Department of Mathematics, Aligarh Muslim University, Aligarh (**Abs. No-20, p-14**).

## Annexure – IV

### List of Conferences, Seminars, Refresher Course and Workshops attended

1. International Workshop on Pure and Applied Mathematics (**IWPAM-2015**), University of Tabuk, **Tabuk**, KSA, May 31-June 2, 2015.
2. International Conference on Algebra and its Applications (**ICAA-14**) held at the Department Mathematics, Aligarh Muslim University(**AMU**), Aligarh, December 15-17, 2014.
3. The 32th Ohio State – Dension Mathematics Conference, The Ohio State University, **Columbus, USA**, May 9-11, 2014 (<http://www.math.osu.edu/conferences/dension32>)
4. *Short Term Course on Academic Paper Writing Skills*, Sponsored by the Ministry of Minority Affairs, Govt. of India from March 26, 2014 to April 2, 2014 held at UGC Academic Staff College, Aligarh Muslim University, Aligarh (Nodal Center for the Training of the Teachers of the MMDCs).
5. International Conference on Recent Trends in Algebra and Analysis with Applications (**ICRTAAA-2014**) from February 12-14, 2014 held at the Department Mathematics, Aligarh Muslim University, Aligarh.

6. International Conference on algebra in Honour of P. Smith and J. Clark's 70<sup>th</sup> Birthday (**ICAPSJC**), organized by the Department of Mathematics, Balikesir University, **Turkey** , August 12-15, 2013.
7. UGC sponsored *Special Summer School Srogramme* 2013-2014 from May 05-29, 2013 held at UGC Academic Staff College, Aligarh Muslim University, Aligarh.
8. International Conference on Differential Geometry and Relativity (**ICDGR-12**) from November 20-22, 2012 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
9. **UGC** Sponsored CXVI-Orientation Programme, from July 15 to August 11, 2011 held at the **UGC Academic Staff College**, Aligarh Muslim University, Aligarh.
10. The 6<sup>th</sup> China-Japan-Korea International Conference on Ring and Module Theory (**ICRT-11**) from June-27 to July 2, 2011 at Kyung Hee University at Suwon, **South Korea**.
11. National Conference on Recent Advances in Mathematics and Their Applications from February 12-13, 2011 held at Department of Mathematics, Shri Varshney College, Aligarh.
12. International Congress of Mathematicians (ICM)-2010 from August 19-27, 2010 held at **Hyderabad International Convention Centre (HICC)**, and organized by the University of Hyderabad, Hyderabad, India.
13. International Conference on Algebra and its Applications (**ICAA-10**) from February 20-22, 2010 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
14. International Conference on “**Ramanujan Rediscovered 2009** ” from June 1-5, 2009 held at **Infosys Campus** and organized by Indian Institute of Information Technology (**IIIT**), Bangalore.
15. Workshop on “*Geometry of Banach Spaces and its Applications*” Sponsored by NBHM and conducted by Indian Statistical Institute(**ISI**), Bangalore from June 1-13, 2009.

16. Workshop on '*some current issues and challenges*' from March 24-29, 2009 held at UGC Academic Staff College, Aligarh Muslim University, Aligarh
17. 74<sup>th</sup> Annual Conference of the Indian Mathematical Society (**IMS**) from December 27-30, 2008 held at the Department of Mathematics, University of Allahabad, Allahabad.
18. First Science Conclave: *A Congregation of Nobel Prize Winner*, an MHRD & DST initiative from December 15-21, 2008 held at IIIT-Allahabad
19. Orientation and Sensitisation Workshop on *Science Writing/ Journalism* from December 6-10, 2008 held at AMU Jointly organized by The Department Mass Communication, AMU, Aligarh & National Council For Science and Technology Communication, DST, New Delhi.
20. International Conference on Analysis and its Applications (**ICAA -08**) from November 3-5, 2008 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
21. 23<sup>rd</sup> Annual Conference of Ramanujan Mathematical Society (**RMS**) from May 19-21, 2008, held at Department of Mathematics, Indian Institute of Technology, Kanpur.
22. The Fifth China-Japan-Korea International Symposium on Ring Theory (**ISORT**) from September 10-15, 2007, held at the National Olympic Memorial Youth Center(NYC), Tokyo, JAPAN.
23. **UGC** Sponsored Refresher Course in Mathematics, from November 18, 2007 to December 08, 2007 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
24. 71<sup>st</sup> Annual Conference of the Indian Mathematical Society (**IMS**) from December 26-29, 2005 held at the Department of Mathematics, Indian Institute of Technology, Roorkee.
25. 8<sup>th</sup> Conference of the International Academy of Physical Sciences (**CONIAPS-VIII**), from December 29-31, 2005 Jointly Organized by CCS, University, NICE Society Institutions, Meerut and International Academy of Physical Sciences, Allahabad from December 29-31, 2005 held at C.C.S., University, Meerut.

26. 19<sup>th</sup> Annual Conference of Ramanujam Mathematical Society from July 21-24, 2004 Department of Mathematics, Institute of Basic Sciences(Dr. B. R. Ambedkar, Agra University), Khandari, Agra.
27. 70<sup>th</sup> Annual Conference of the Indian Mathematical Society (**IMS**) from December 26-29, 2004 held at the Department of Mathematics & Statistics, Jai Narain Vyas University, Jodhpur
28. 69<sup>th</sup> Annual Conference of the Indian Mathematical Society (**IMS**) from December 26-29, 2003 held at the Department of Mathematics & Astronomy, University of Lucknow, Lucknow.
29. The Joint **India - AMS** Mathematical Meetings from December 17- 20, 2003 held at J. N. Tata Auditorium, Indian Institute of Science, Bangalore.
30. Workshop on Commutative Algebra and Algebraic Geometry on the occasion of the first India-AMS Mathematics Meeting on December 16, 2003 held at The Department of Mathematics, Indian Institute of Science, Bangalore.
31. Instructional Workshop conducted by Indian Statistical Institute, Bangalore from December 11-16, 2003.
32. Workshop on L<sup>A</sup>T<sub>E</sub>X and Mathematical Software from June 9-14, 2003 to be organized by Bhaskarachariya Pratishthana and Department of Mathematics, University of Pune, Pune.
33. International Conference on Theory of Rings and Modules from May 7-8, 2003 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
34. Conference on Recent Trends in Algebra and Analysis from March 03-05, 2003, held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
35. 68<sup>th</sup> Annual Conference of the Indian Mathematical Society, from January 20-23, 2002 held at the Department of Mathematics, Shivaji University, Kolhapure.
36. 67<sup>th</sup> Annual Conference of the Indian Mathematical Society, from January 27-30, 2002 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
37. Conference on Emerging Trends in Mathematics, from March 24-26, 2001 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
38. Conference on Recent Development in Relativity & Allied Topics from August 30 to September 1, 1999 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
39. Conference on Analysis and Allied Topics, from August 27-29, 1998 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.

40. International Conference on Algebra & its Applications, from November 13-16, 1997 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
41. International Conference on Functional Analysis with Applications from December 27-30, 1995 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
42. 61<sup>st</sup> Annual Conference of the Indian Mathematical Society (IMS), from December 27-30, 1995 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.

## PERSONAL DETAILS

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## REFERENCES

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Date : February, 2016

**( Shakir Ali )**