

## CURRICULUM VITAE

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### 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

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

### AWARDS AND FELLOWSHIPS

- **Best Research Paper Award** for the year 2003 at the 69<sup>th</sup> Annual Conference of the Indian Mathematical Society during December 26-29, 2003 held at University of Lucknow, Lucknow.
- **Research Associateship** 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.

## TEACHING AND RESEARCH EXPERIENCES

(Teaching Experience: 5 Years Plus& Research Experience: 9 Years Plus)

- **Lecturer** in the Department of Mathematics, Aligarh Muslim University, from July 24, 2006- Till date.
- **Guest Faculty** in the Department of Mathematics, Aligarh Muslim University, from September 7, 2005- 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.
- **Junior Research Fellowship(JRF)** through University Grants Commission (from 2001-2002 ), Department of Mathematics, Aligarh Muslim University, Aligarh.
- **Junior Project Fellow(JPF)** sponsored by MHRD through National Institute of Education Planning and Administration, New Delhi, from February 16, 1999 to May 31, 1999.

## 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.

## FIELDS OF SPECIALIZATION / RESEARCH INTERESTS

Algebra / Ring Theory / Derivations in Rings and Near Rings,  
Commutativity and Structures of Rings and Near Rings, Finite Fields  
and Modules.

## RESEARCH PUBLICATIONS

- Number of Papers Published : 13(Refer to Annexure – I)
- Number of Paper Accepted : 02(Refer to Annexure – I)
- Number of Papers Submitted for Publication:02(Refer to Annexure – I)
- Papers presented at Conferences: 12(Refer to Annexure – II)
- Seminars and Conferences attended: 20(Refer to Annexure– III)

## **INSTITUTE / UNIVERSITY VISITS**

- School of Mathematics, Tata Institute of Fundamental Research Bombay, short term visiting program during June, 2000.
- Indian Statistical Institute, Bangalore, during December 11-15, 2003.
- The Department of Mathematics, Indian Institute of Science, Bangalore, on the occasion of the first India-AMS Mathematics Meeting on December 16, 2003.

## **TOPICS TAUGHT**

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.

## **LANGUAGES KNOWN**

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

## PERSONAL DETAILS

Father's Name : Mr. Sabir Shah  
Date and Place of Birth : December 01, 1971, Pilibhit (U.P.)  
Nationality : Indian  
Religion : Islam  
Marital Status/Sex : Married/ Male

## REFERENCES

Prof. Mohammad Ashraf  
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Aligarh Muslim University  
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Professor Dr. Hidetoshi Marubayashi  
Department of Mathematics  
Naruto University of Education  
Naruto, JAPAN  
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Place: Aligarh  
Date : September, 2007

( Shakir Ali)

## Annexure –I

### List of Research Publications

1. On generalized derivations and commutativity of prime rings, **Southeast Asian Bull. Math.** 31 (2007), 415-421 (Jointly with M. Ashraf and A. Ali).
2. On derivations in rings and their Applications, **The Aligarh Bull. Maths.** 25(2) (2006), 79-107 (Jointly with M. Ashraf and C. Haetinger).
3. On Lie ideals and generalized derivations of prime rings, **East West Journal of Mathematics**, 7( 1) (2005), 93-98 (Jointly with A. Ali and R. Rani), MR# 2279706 (2007g:16051).
4. On  $(\sigma, \tau)$ -Derivations of prime near rings, **Trends in Theory of Rings & Modules**, (S. Tariq Rizvi & S. M. A. Zaidi, (Eds.)), Anamaya Publishers, New Delhi, (2005), 5-10 (Jointly with M. Ashraf).
5. On Lie ideals and generalized  $(\theta, \phi)$ -derivations in prime rings, **Communications in Algebra**, 32 (8) (2004), 2977-2985 (Jointly with M. Ashraf and A. Ali), MR#2102162 (2005j:16026).
6. 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).
7.  $(\sigma, \tau)$ -Derivations on prime near-rings, **Arch. Math. (Brno)**, 40 (2004), 281-286 (Jointly with M. Ashraf and A. Ali), MR# 2107023.
8. 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).
9. 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).
10. Decomposition theorems for periodic near-rings, **Rad. Math.**, 12 (2003), 5-11 (Jointly with A. Ali and R. Rani).
11. Jordan automorphisms on Jordan ideals of prime rings, **J. Jilin Univ. Sci.**, 41(10), (2003), 21-24 (Jointly with M. Ashraf and A. Ali).
12. Jordan automorphism on Lie ideals of prime rings, **The Aligarh Bull. Maths.** 21 (1) (2002), 1-6 (Jointly with A. Ali and N. Rehman).

13. On Jordan left derivations of Lie ideals in prime rings, **Southeast Asian Bull. Math.** 25( 3)(2001), 375-382 (Jointly with M. Ashraf and N. Rehman).
14. On  $(\sigma, \tau)$ -derivations in prime near rings-II, **Sarajevo Journal of Mathematics** (Jointly with M. Ashraf) *accepted* for publication
15. On left multipliers of prime rings, **DEMONSTRATIO MATHEMATICA**, *accepted* for publication
16. Generalized Jordan left derivations in prime rings, **Bulletin of Korean Mathematical Society**, submitted for publication.
17. Left derivations and commutativity of rings, **Internat. J. Math. Game Theory & Algebra**, (Jointly with M. Ashraf) submitted for publication.

## Annexure - II

### List of Papers Presented at Conferences and Seminars

1. *On generalized Jordan left derivations in certain classes of rings*, The Fifth China-Japan-Korea International Symposium on Ring Theory from September 10-15, 2007, held at the National Olympic Memorial Youth Center(NYC), Tokyo, JAPAN( **Abs. -2, p-02**).
2. *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**).
3. *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**).
4. *On left derivations and commutativity of rings* 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 (**Abs. No., 4, p-10**).
5. *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**).
6. *On left  $(\theta, \varphi)$ -derivations and commutativity of prime rings*, 69<sup>th</sup> 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**).

7. *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**).
8. *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**).
9. *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**).
10. *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**).
11. *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**).
12. *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 – III**

### **List of Conferences, Seminars and Workshops attended**

1. The Fifth China-Japan-Korea International Symposium on Ring Theory from September 10-15, 2007, held at the National Olympic Memorial Youth Center(NYC), Tokyo, JAPAN.
2. 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.
3. 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.
4. 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.
5. 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
6. 69<sup>th</sup> Annual Conference of the Indian Mathematical Society from December 26-29, 2003 held at the Department of Mathematics & Astronomy, University of Lucknow, Lucknow.
7. The Joint India - AMS Mathematical Meetings from December 17- 20, 2003 held at J. N. Tata Auditorium, Indian Institute of Science, Bangalore.

8. 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.
9. Instructional Workshop conducted by Indian Statistical Institute, Bangalore from December 11-16, 2003.
10. Workshop on L<sup>A</sup>T<sub>E</sub>X and Mathematical Software from June 9-14, 2003 to be organized by Bhaskaracharya Pratishthana and Department of Mathematics, University of Pune, Pune.
11. International Conference on Theory of Rings and Modules from May 7-8, 2003 held at the Department Mathematics, Aligarh Muslim University, Aligarh.
12. Conference on Recent Trends in Algebra and Analysis from March 03-05, 2003, held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
13. 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.
14. 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.
15. Conference on Emerging Trends in Mathematics, from March 24-26, 2001 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
16. 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.
17. Conference on Analysis and Allied Topics, from August 27-29, 1998 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
18. International Conference on Algebra & its Applications, from November 13-16, 1997 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.

19. International Conference on Functional Analysis with Applications from December 27-30, 1995 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.
20. 61<sup>st</sup> Annual Conference of the Indian Mathematical Society, from December 27-30, 1995 held at the Department of Mathematics, Aligarh Muslim University, Aligarh.