CURRICULUM-VITAE

DR. SABAHAT ALI KHAN
Assistant Professor in Mathematics(Contractual),
Department of Computer Science(SEST)
Jamia Hamdard, New Delhi (India)
E-mail ID: khansabahat361@gmail.com,
Institutional E-mail ID: drsabahatakhan@jamiahamdard.ac.in
Skype ID: live:.cid.b84fec7e7a2313e
Mobile No: +91-9540285561, +91-7505160219

CAREER OBJECTIVE:

To accelerate my career at a highly-reputed and eminent educational institute and to gain exceptional career move ahead through long efforts and performance regularity. And to better facilitate student learning in the area of Mathematics (Applied Mathematics & Pure Mathematics) with its applications in various subjects and life.

TEACHING EXPERIENCE:

- Working as an Assistant Professor in Mathematics in the **Department of Computer Science, School of Engineering Science and Technology(SEST)**, **Jamia Hamdard, New Delhi** w.e.f. February 08, 2024 to till date.
- Worked as an Assistant Professor in the **Department of Mathematics, Jamia Millia Islamia(A Central University), New Delhi** w.e.f. September 09, 2022 for the Academic Session 2022-23.
- Worked as a Guest Faculty in **B.Voc. (Solar Energy) Self-Financing,** Department of Physics, Jamia Millia Islamia**(A Central University)**, New Delhi w.e.f. August 02, 2021 for the **Academic Session 2021-22**.
- Worked as a Guest Faculty in **B.Voc. (Solar Energy) Self-Financing,** Department of Physics, Jamia Millia Islamia**(A Central University)**, New Delhi w.e.f. August 17, 2020 for the **Academic Session 2020-21**.
- Worked as a Guest Faculty in **B.Voc. (Solar Energy) Self-Financing,** Department of Physics, Jamia Millia Islamia**(A Central University)**, New Delhi since September 02, 2019 to May 31, 2020.
- Worked as a Guest Faculty in **B.Voc. (Solar Energy) Self-Financing,** Department of Physics, Jamia Millia Islamia**(A Central University)**, New Delhi since February 25, 2019 to May 31, 2019.
- Worked as a Lecturer in the **Department of Mathematics, Mohammad Ali Jauhar University, Rampur (U.P.)** since September 23, 2013 to October 24, 2015.

- Worked as a Senior Lecturer in the **Department of Applied Science and Humanities, Al-Falah School of Engineering and Technology, Dhauj, Faridabad, Haryana** since August 21, 2009 to September 20, 2013.

SUBJECT TAUGHT:

1. Probability and Statistics
2. Discrete Mathematics
3. Set Theory and Number Theory
4. Group Theory
5. Ring Theory
6. Coding Theory
7. Applications of Algebra
8. Fuzzy Set Theory and Soft Set Theory
9. Numerical Methods
10. Special Functions and Integral Transforms
11. Engineering Mathematics

ACADEMIC QUALIFICTIONS:

Degree	Subjects	University	Year	Division	%
Ph.D.	Mathematics (Abstract Algebra)	Jamia Millia Islamia, New Delhi(India)	2019	Awarded	-
M.Sc.	Mathematics	Jamia Millia Islamia, New Delhi(India)	2008	1st	74
B.Sc.	Mathematics, Physics	M. J. P. Rohilkhand University, Bareilly(India)	2006	1st	62

Title of the Thesis: A Study of Ideals in Algebraic System

ACADEMIC ACHIEVEMENTS:

- Qualified **Graduate Aptitude Test for Engineering(GATE)** in 2015 with All India Rank **85**.
- Qualified **Council of Scientific and Industrial Research National Eligibility Test(CSIR NET)** in 2014 with All India Rank **53**.
- Qualified **Graduate Aptitude Test for Engineering(GATE)** in 2013 with All India Rank **218**.

RESEARCH PUBLICATIONS (PUBLISHED/ACCEPTED)-29

1. **S. Khan**, M. Abbasi, K. Hila and Ahmad Raza, **Some Characterizations of Γ−Semihypergroups by Soft Generalized Γ-hyperideals,** Iranian Journal of Mathematical Sciences and Informatics, 20(1)(2025), 151-174. **(Web of Science and Scopus Indexed)(Q3)**

2. M. Yahya Abbasi, Tasaduk Rashid Mir and **Sabahat Ali Khan**,**Characteristics of Soft Fractional Ideals and its R-multiples of Integral Domains**, Palestine Journal of Mathematics, 13(3)(2024), 392−399. **(Scopus Indexed) (Q4)**

3. Shahnawaz Ali, Mohammad Y. Abbasi, Kostaq Hila and Sabahat A. Khan, **Characterizations of *QC*-hyperideals in semihypergroups,** Afrika Matematika (2024) 35:74 **(Web of Science and Scopus Indexed)(Q2)** (doi: 10.1007/s13370-024-01215-3)

4. M.Y. Abbasi, Shanawaz Ali and **S.A. Khan, On Quasi Covered Ideals And Quasi Bases Of Ordered Semigroups**, Honam Mathematical Journal, 46(3)(2024), 500-514. **(Web of Science)(Q3)**

5. Akbar Ali, **Sabahat Ali Khan** and M. Yahya Abbasi, **A Study of Bi-bases of Ternary Semigroups**, Afrika Matematika, (2024)35:27, doi: 10.1007/s13370-024-01167-8. **(Web of Science and Scopus Indexed)(Q2)**

6. Fahad Sikander, Shahnawaz Ali, M. Y. Abbasi, **S. A. Khan**, **Interplay of Quasi Covered Ideals and Quasi Bases in Semigroup Theory**, Results in Nonlinear Analysis, 7(2)(2023), 43-52. **(Scopus Indexed) (Q2)**

7. M.Y. Abbasi, **S.A. Khan,** K. Hila and A. Raza, **Soft Hyperideals and Soft Hyperfilters in *-ternary semihypergroups**, Journal of Multiple-Valued Logic and Soft Computing, 41(2023), 169-186. **(Web of Science and Scopus Indexed) (Q2)**

8. **Sabahat Ali Khan**, Mohammad Yahya Abbasi, Kostaq Hila and Aakif Fairooze Talee, A study of Soft Hyperideals in Right Regular LA-semihypergroups, Asian European Journal of Mathematics, 16(8)(2023), 20 pages. **(Web of Science and Scopus Indexed)(Q3)**

9. Aakif Fairooze Talee, Mohammad Y. Abbasi, Kostaq Hila and Sabahat Ali Khan, A New Approach Towards int-soft hyperideals in ordered ternary semihypergroups, Journal of Discrete Mathematical Sciences & Cryptography, 25(5)(2022), 1239-1259. **(Web of Science and Scopus Indexed)(Q1)**

10. **Sabahat Ali Khan**, Mohammad Yahya Abbasi and Ahmad Raza, A Note on Soft Union Γ-hypernear-rings, Palestine Journal of Mathematics, 11(4)(2022), 152-159. **(Scopus Indexed)(Q4)**

11. Mohammad Y. Abbasi, Kostaq Hila, **Sabahat A. Khan** and Aakif F. Talee, A Study of Generalized Quasi Hyperideals in Ordered Ternary Semihypergroups, Thai Journal of Mathematics, 19(4)(2021), 1585-1599. **(Web of Science and Scopus Indexed)(Q4)**

12. Mohammad Y. Abbasi, Kostaq Hila, **Sabahat A. Khan** and Aakif F. Talee, Characterizations of Soft Γ-hyperideals in Ordered Γ-semihypergroups, Afrika Matematika, 31(5) (2020), 847-867. **(Web of Science and Scopus Indexed)(Q2)**

13. M.Y. Abbasi, **Sabahat Ali Khan** and Akbar Ali, A note on soft ideals and soft filters in ternary semigroups with involution, Discussiones Mathematicae-General Algebra and Applications, 40 (2020), 119-133. **(Scopus Indexed)(Q4)**

14. M.Y. Abbasi, Aakif FairoozeTalee, **Sabahat Ali Khan** and G. Muhiudin, *A Hesitant fuzzy set approach to ideal theory in po-Γ-semigroups*, Italian Journal of Pure and Applied Mathematics, 43 (2020), 73-85.**(Scopus Indexed)(Q4)**

15. Mohammad Yahya Abbasi, **Sabahat Ali Khan** and Akbar Ali, On Ordered (p, q)-lateral Ideals in Ordered Ternary Semigroups, Applications and Applied Mathematics: An International Journal(AAM), 14(2)(2019), 1157-1168. **(Web of Science)**

16. Abul Basar, Mohammad Yahya Abbasi and **Sabahat Ali Khan**, An introduction of theory of involutions in ordered semihypergroups and their weakly prime hyperideals, Journal of the Indian Mathematical Society, 86 (3-4), (2019), 230-240. **(Scopus Indexed)(Q4)**

17. **Sabahat Ali Khan**, Mohammad Yahya Abbasi and Akbar Ali, A study on covered lateral ideals of ordered ternary semigroups, Quasigroups and Related Systems, 27(1)(2019), 73-76. **(Scopus Indexed)(Q4)**

18. Aakif Fairooze Talee, Mohammad Yahya Abbasi, **Sabahat Ali Khan** and Kostaq Hila, Fuzzy set approach to hyperideal theory of po-ternary semihypergroups, Journal of Discrete Mathematical Sciences & Cryptography, 22(3)(2019), 411-431. DOI : 10.1080/09720529.2019.1600846. **(Web of Science and Scopus Indexed)(Q1)**

19. M.Y. Abbasi, **S.A. Khan**, A.F. Talee and A. Khan, *Soft Interior-hyperideals in Left Regular LA-semihypergroups*, Kragujevac Journal of Mathematics, 44(2)(2020), 217-236. **(Web of Science and Scopus Indexed)(Q1)**

20. Aakif Fairooze Talee, M.Y. Abbasi and **S.A. Khan**, An Investigation on Prime and Semiprime fuzzy hyperideals in po-ternary semihypergroups, Applications and Applied Mathematics, 13(2)(2018), 1184-1199. **(Web of Science)**

21. M.Y. Abbasi, Aakif Fairooze Talee, X.Y. Xie and **S.A. Khan**, *Hesitant Fuzzy Ideal Extension in Po-semigroups*, TWMS J. App. Eng. Math., 8(2) (2018), 509-521. **(Web of Science and Scopus Indexed)(Q3)**

22. M. Y. Abbasi, Aakif Fairooze Talee, **Sabahat Ali Khan**, *Hesitant Fuzzy Sets Approach to Ideal Theory in Ternary Semigroups*, International Journal of Applied Mathematics, 31(4) (2018), 527-539.**(Scopus Indexed)**

23. Mohammad Y. Abbasi, Aakif F. Talee, **Sabahat A. Khan** and Kostaq Hila, A Hesitant Fuzzy Set Approach To Ideal Theory in Gamma-Semigroups, Advances in Fuzzy Systems, Volume 2018, Article ID 5738024, 6 pages. doi.org/10.1155/2018/5738024. **(Web of Science and Scopus Indexed)(Q1)**

24. M.Y. Abbasi, A. Basar, A.F. Talee and **S.A. Khan,** *Generalized((ξ,ζ)-) Soft InteriorΓ-hyperideals of Γ-semihypergroups*, Honam Mathematical Journal, 40(1) (2018), 93-108. **(Web of Science)**

25. Mohammad Yahya Abbasi, **Sabahat Ali Khan** and Abul Basar, *On Generalised Quasi Ideals in Ordered Ternary Semigroups*, Kyungpook Mathematical Journal, 57(4) (2017), 545-558. **(Web of Science and Scopus Indexed)(Q3)**

26. Mohammad Yahya Abbasi and **Sabahat Ali Khan**, *On some generalized ideals in ternary semigroups*, Quasigroups and Related Systems, 25(2) (2017), 181-188.**(Scopus Indexed)(Q4)**

27. Abul Basar, M.Y. Abbasi and **Sabahat Ali Khan**, *Some Properties of Covered $\Gamma-$ideals in Po-$\Gamma-$semigroups*, International Journal of Pure and Applied Mathematics, 115(2) (2017), 345-352. **(Scopus Indexed)**

28. Aakif Fairooze Talee, M.Y. Abbasi and **Sabahat Ali Khan**, *Hesitant Fuzzy Ideals in Semigroups with a Frontier*, Aryabhatta Journal of Mathematics & Informatics, 9(1) (2017), 163-170. **(ICI Indexed)**

29. M.Y. Abbasi, **Sabahat Ali Khan** and Aakif Fairooze Talee, *Lateral Hyperbases and Covered Lateral Hyperideals of Ordered Ternary Semihypergroups*, International Journal of Advance Research in Science and Engineering, 6(11) (2017), 1783-1797.

PUBLICATIONS IN CONFERENCE PROCEEDINGS-5

1. Mohammad Yahya Abbasi, **Sabahat Ali Khan** and Ahmad Raza, Applications of Soft Intersection Sets in Hypernear Rings, Conference Proceeding Science and Technology, 3(1), 2020, 191–197.
2.
3. Akbar Ali, M.Y. Abbasi and **Sabahat Ali Khan**, A Note on Generalized Po-bi-Quasi Γ-ideals in Po-bi-TernaryΓ-semigroups, AIP Conference Proceedings 2061, 020005 (2019); https://doi.org/10.1063/1.5086627.**(Scopus Indexed)**

4. M.Y. Abbasi, **S.A. Khan**, A.F. Talee (2019) Characterizations of Right Regular Ordered LA-Semihypergroups via Soft Hyperideals. In: Malik H., Srivastava S., Sood Y., Ahmad A. (eds) Applications of Artificial Intelligence Techniques in Engineering. Advances in Intelligent Systems and Computing, vol 698. Springer, Singapore **(ISI and Scopus Indexed)**

5. **S.A. Khan**, M.Y. Abbasi, A.F. Talee (2019) A New Approach to Soft Hyperideals in LA-Semihypergroups. In: Yadav N., Yadav A., Bansal J., Deep K., Kim J. (eds) Harmony Search and Nature Inspired Optimization Algorithms. Advances in Intelligent Systems and Computing, vol 741. Springer, Singapore. **(ISI and Scopus Indexed)**

6. M.Y. Abbasi, Aakif Fairooze Talee and **Sabahat Ali Khan**, *An Application of Hesitant Fuzzy Ideal Techniques to the Intra-regular and Weakly-regular Po-semigroups*, Proceedings of IIRAJ International Conference(ICCI-SEM-2K17), GIFT, Bhubaneswar, India, (2017).

CONFERENCES/ SHORT-TERM COURSE ATTENDED-03

1. **International Conference on Algebra, Geometry, Analysis and their Applications**, Department of Mathematics, Jamia Millia Islamia, New Delhi,**November 27-29, 2014**.

2. **International Conference on Algebra and its Applications**, Department of Mathematics, Aligarh Muslim University, Aligarh, U.P., **December 15- 17, 2014**.

3. **Short-Term Course on Applied Numerical Methods with MATLAB,** N.I.T.T.T.R., Chandigarh, **July 29-August 02, 2013**.

PRESENTATIONS IN CONFERENCES-10

1. ***Applications of Soft Intersection Sets in Hypernear rings,*** International E–Conference on Mathematical Advances and Application, Yildiz Technical University, Istanbul, Turkey, **June 24-27, 2020**

2. ***A New Approach of Soft Intersection Hypernear-rings,*** International Conference on Mathematical Modelling, Applied Analysis and Computation, JECRC University, Jaipur, Rajasthan, **July 06-08, 2018.**

3. ***Characterizations of Right Regular Ordered LA-Semihypergroups via. Soft Hyperideals,*** International Conference on Signals, Machines and Automation**,** Netaji Subhas Institute of Technology, Delhi, India, **February 23-25, 2018.**

4. ***A New Approach to Soft Hyperideals in LA-semihypergroups***, 4th International Conference on Harmony Search, Soft Computing an Applications, BML, Munjal University, Gurgaon, Haryana, India, **February 07-09, 2018.**

5. ***Lateral Hyperbases and Covered Lateral Hyperideals of Ordered Ternary Semihypergroups***, 4th International Conference on Recent Advances in Engineering Science and Management(ICRAESM-17), Institution of Electronics and Telecommunication Engineers, Chandigarh, India, **November 26, 2017**.

6. ***Hesitant Fuzzy Ideals in Semigroups with Two Frontiers***, International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical Sciences, Statistics and Emerging Energy Technology for Sustainable Development, Krishi Sanskriti Publications, **July 08, 2017**.

7. ***On Generalised Quasi Ideals in Ordered Ternary Semigroups***, National Seminar on Recent Developments in Mathematical Sciences, Department of Mathematics, Maharshi Dayanand University, Rohtak(Haryana), India, **March 07-08, 2017.**

8. ***An Application of Hesitant Fuzzy Ideal Techniques to the Intra-regular and Weakly-regular Po-semigroup***, International Conference on Contemporary Issues in Science, Engineering and Management, Gandhi Institute for Technology, Bhubaneswar, **February 18-19, 2017**.

9. ***Generalised Ideals in Ternary Semigroups***, International Conference on Differential Geometry, Algebra and Analysis, Department of Mathematics, Jamia Millia Islamia, New Delhi, **November 15-17, 2016**.

10. ***Ordered Ternary Semihypergroups,*** International Conference on Algebra and its Applications of Mathematics, Aligarh Muslim University, Aligarh, U.P., **November 12-14, 2016.**

TECHNICAL SKILLS:

1. MS Office
2. Latex
3. Python

HOBBIES:

1. Playing and watching cricket
2. Listening Music
3. Social Networking
4. Reading Newspaper

PERSONAL INFORMATION:

Date of Birth	: August 15, 1986
Father's name	: Late Mr. Firasat Ali Khan
Marital status	: Married
Address	: Imli Asmat Khan, Jail Road Rampur(U.P.)-244901
State	: Uttar Pradesh
Nationality	: Indian
Languages known	: English, Hindi, Urdu
Passport No.	: N2006295 (valid from 31/08/2015 to 30/08/2025)
Skype ID	: live:.cid.b84fec7e7a2313e

DECLARATION

I hereby declare that the above furnished information made in this curriculum vitae are true and correct to the best of my knowledge.
Date:

Place: New Delhi

Dr. Sabahat Ali Khan

REFERENCES:

1. **Prof.(Dr.) M. Yahya Abbasi**
   Assistant Professor, Department of Mathematics,
   Jamia Millia Islamia, New Delhi (India)
   Email: mabbasi@jmi.ac.in

2. **Prof.(Dr.)Ayub Khan(Retd.)**
   Professor, Department of Mathematics,
   Jamia Millia Islamia, New Delhi (India)
   Email: akhan12@jmi.ac.in, ayubkdu@gmail.com

3. **Prof.(Dr.) Mohd. Hasan Shahid(Retd.)**
   Professor, Department of Mathematics,
   Jamia Millia Islamia, New Delhi (India)
   Email: mshahid@jmi.ac.in

4. **Prof.(Dr.) Kostaq Hila**
   Professor, Polytechnic University of Tirana,
   Faculty of Mathematical Engineering and Physics Engineering,
   Department of Mathematical Engineering,
   Rruga "S. Delvina", prane ish-Hotel "Diplomat", Tirana 1001 – ALBANIA
   Email: kostaq_hila@yahoo.com

5. **Prof.(Dr.) Arshad Khan**
   Associate Professor, Department of Mathematics,
   Jamia Millia Islamia, New Delhi (India)
   Email: akhan2@jmi.ac.in