



CURRICULUM VITAE (CV)
of
FAIZ MUHAMMAD KHAN

PERSONAL INFORMATION

Name : Faiz Muhammad Khan
Citizenship : Pakistani
Date of birth : April 1, 1982
Place of birth : Balogram Swat, Khyber Pakhtunkhwa, Pakistan
Marital Status : Married
Home Address : Golden Colony, near Farwarish School Qamber Swat, Khyber Pakhtunkhwa, Pakistan
Office Address : Department of Mathematics and Statistics, University of Swat, Swat, Khyber Pakhtunkhwa, Pakistan
Email : faiz_zady@yahoo.com

EDUCATION BACKGROUND

Post Doctorate (Mathematics), Northwestern Polytechnical University (NPU) Xi'an China
Ph D (Mathematics), (with International Doctoral Fellowship (IDF) by UTM throughout the study and Partial Support Award by Higher Education Commission HEC, Pakistan) Universiti Teknologi Malaysia (UTM), Malaysia.

Thesis : Fuzzy Ideals in Ordered Semigroups and Their Generalisations.

M. Phil (Mathematics), (with merit scholarship) Quaid-i-Azam University Islamabad, Pakistan Year 2009
M.Sc. (Mathematics), University of Malakand Khyber Pakhunkhwa, Pakistan Year 2006

HEC approved Supervisor

HONORS AND AWARDS

- ✓ *Partial Support Award* by Higher Education Commission (HEC) Pakistan.
- ✓ *Visiting Junior Researcher* (1st July 2013-30th September 2013) by UTM.
- ✓ *Visiting Junior Researcher* (1st April 2013-30th Jun 2013) by UTM.
- ✓ *International Doctoral Fellowship (IDF)* for Ph D studies (2011-2013) by UTM.
- ✓ *Visiting Junior Researcher* (1st Nov 2012-31st Dec 2012) by UTM.
- ✓ *UTM 2010 Institutional scholarship Award* (2010) by UTM.
- ✓ *Graduate Assistance (GA)* for one semester by UTM.
- ✓ *Teaching Assistance (TA)* for one semester by UTM.
- ✓ *Merit Scholarship* in M. Phil. (2007-2009) by Quaid-I-Azam University Islamabad Pakistan.

TRAINING

Professional Competency Enhancement Program for Teachers (PCEPT) Organized by Higher Education Commission of Pakistan from 27 July 2009 to 22 August 2009.

RESEARCH INTEREST

Fuzzy algebras (fuzzy ordered semigroups/semigroups, fuzzy rings, fuzzy semirings/hemirings, fuzzy seminearrings), and Soft sets with applications

PROFESSIONAL MEMBERSHIP AND FUNCTIONS

Applied Algebra and Analysis (A³G) – **Member**

Post Graduate Science Student Society (PGSSFS) – **Social Program Officer**

BIGTC-2011 International conference – **Member of organizing committee**

ISPC-2012 (Nov 27-30, 2012) International conference – **Secretary and Reviewer (Mathematics Articles)**

International Student Society Pakistan (ISS-Pak) – **Vice President**

PRESENT STATUS

Post Doctorate Fellow

Northwestern Polytechnical University Xian China
September 2017 to September 2018

Incharge of the Department and Campus Coordinator

Assistant Professor (On Leave for Post doctorate)

Department of Mathematics and Statistics, University of Swat, Swat, Khyber Pakhtunkhwa, Pakistan
20 December, 2013 to 17th May 2017.

APPOINTMENT AT OTHER ORGANIZATION

Lecturer

Department of Mathematics and Statistic, Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS-AAUR), Pakistan

April, 2009 to September, 2010

Lecturer

Department of Mathematics Govt Degree College Mir Ali (NWA) Pakistan
September, 2006 to February, 2007

Total Professional Experience

6.5 years

Total Research Experience

10 years

REVIEWING ACTIVITIES

Journal of Intelligent and Fuzzy Systems (**ISI**)
World Applied Sciences Journal (WASJ) (**ISI**)
Iranian Journal of Science and Technology Transection-A (**ISI**)
Jurnal Teknologi (**SCOPUS**)
Afrika Matematika
Annul of Fuzzy Mathematics and Informatics
Journal of Advanced research in pure and applied Mathematics

TEACHING EXPERIENCE

Undergraduate Level:

Engineering Mathematics I, Mathematics I, Mathematics II

Graduate Level:

Group Theory, Linear Algebra, Semigroup Theory, Ideals Theory, Fuzzy set Theory, Fuzzy semigroups, Fuzzy Ordered Semigroups, Calculus-1, Business Mathematics.

Visiting Researcher:

Attended Universiti Teknologi Malaysia (UTM) as a visitng researcher for 20 days (14 july 2014 to 1st August 2014) to help the UTM students in research. (UTM sponserd)

Pioneer of BS-Mathematics and M.Sc Mathematics Programs:

BS-Mathematics and M.Sc mathematics programs in the department of mathematics and Statistics have been started by our team under my supervision.

Board of Studies Meeting:

Conducted first board of studies meeting for BS-Statistics on 30 January 2015.

Conducted first board of studies meeting for BS-Mathematics and M. Sc Mathematics on 17 Nov 2016.

Attended conferences/workshops:

1. CASM Workshop 16 May 2014, LUMS Lahore.
2. 11-12 May 2015, 10th symposium at COMSATS Abbottabad.

Campus Coordinator:

I have been appointed as campus coordinator for colony campus dated 12 October 2015.

Member/Convener of Different University Bodies.

1. Departmental Semester Committee for the Center for Earth & Space Sciences (**Member**).
2. Market and Food Management Committee (**Convener**).
3. Board of Studies for Institute of Chemical Sciences (**Member**)
4. Board of Studies for Journalism and Mass communication (**Member**)
5. UFM discipline committee for BBA/BCom (**Member**)
6. Departmental Purchase Committee for Department of English and Foreign Languages (**Member**)

M Phil Thesis Evaluator:

1. M Phil thesis evaluator of Mr Shafiullah, Department of Mathematics, University of Malakand.
2. M Phil thesis evaluator of Mr Abid Khan, Department of Mathematics, University of Malakand.
3. M Phil thesis evaluator of Mr Ihsan ullah Khan, Department of Mathematics University of Peshawar.
4. M Phil thesis evaluator of Mr Aziz Khan, Department of Mathematics, University of Peshawar.
5. M Phil thesis evaluator of Mr Mohsin Khan, Department of Mathematics, Abdul Wali Khan University Mardan.
6. M Phil thesis evaluator of Mr Imran, Department of Mathematics, Bacha Khan University Charsadda.
7. M Phil thesis evaluator of Mr Wajid Ullah, Department of Mathematics, Bacha Khan University Charsadda.
8. M Phil thesis evaluator of Mr Miraj ul Haq, Department of Mathematics, Bacha Khan University Charsadda.
9. M Phil thesis evaluator of Mr Abdul Samad Khan, Department of Mathematics, Bacha Khan University Charsadda.
10. M Phil thesis evaluator of Mr Sajjad Ali Khan, Department of Mathematics, Bacha Khan University Charsadda.

RESEARCH STUDENTS

S.No	Name of the Student	University	Degree	Supervisor/co-supervisor	Status
1.	Ibrahim Gambo	Universiti Teknologi Malaysia (UTM)	Ph D	Co-Supervisor	completed
2.	Sana Habib	Northwestern Polytechnical University (NPU) Xi'an China	Ph D	Co-Supervisor	Under Progress
3.	Sardar Ahmad	University of Swat	M. Sc	Supervisor	Completed
4.	Zakir Hussain	University of Swat	M. Sc	Supervisor	Completed

PUBLICATIONS

Books/Licture Notes:

1. Prof Nor Haniza Sarmin, Faiz Muhammad Khan & Hazzirah Izzati Mat Hassim. "Group Theory 2 " 4th Edition, Esktop Publisher Malaysia, **2017**.
2. Prof Nor Haniza Sarmin, Faiz Muhammad Khan & Hazzirah Izzati Mat Hassim. "Group Theory 2 " 3rd Edition, Esktop Publisher Malaysia, **2016**.
3. Prof Nor Haniza Sarmin & Faiz Muhammad Khan. "Group Theory 2 " 1st Edition, Esktop Publisher Malaysia, **2014**.

Indexed Journals/Proceedings

2019:

1. F.M. Khan, S. Habib and N. Yufeng, A new concept of Possibility fuzzy soft ordered semigroups via its applications. *Journal of Intelligent and Fuzzy Systems* 36 (2019) 3685–3696 (ISI, I.F=1.4).
2. F.M. Khan, S. Habib and N. Yufeng, An Innovative Approach towards Possibility Fuzzy Soft Ordered Semigroups for Ideals and Its Application. *Mathematics*, 7, 1183; doi:10.3390/math7121183 (ISI, I.F=1.18).
3. F.M. Khan, N. Yufeng, H. Khan and A. Khan. A New classification of hemirings through double-framed soft h-ideals. *Sains Malaysiana*, 48 (12), 2019, 2817-2830. (I.F. =0.56).

2018:

1. **F.M. Khan** (with G. Rahman, Q. Din and F. Faizullah) Qualitative behavior of a second-order fuzzy difference equation. *Journal of Intelligent & Fuzzy Systems* 34 (2018) 745–753 (ISI, I.F=1.4).
2. **F.M. Khan** (with N. Yufeng, H. Khan and B.M. Khan) Ordered Semigroups Based on $(\epsilon, \epsilon \vee q \delta k)$ -Fuzzy Ideals. *Advances in Fuzzy Systems* (2), 1-10, 2018, Volume 2018, Article ID 5304514, 10 pages. ISI
3. **F.M. Khan** (with H. Khan, N. H. Sarmin, I. Gambo) Characterization of $(E, EVqk)$ -fuzzy quasi gamma ideals in ordered gamma semigroups, *Journal of Mathematical and Fundamental Sciences*, 2018, Accepted. ISI

2017:

4. **F.M. Khan** (with H. Khan, N. H. Sarmin, A. Khan and S. Mukhtar) Some Innovative Types of Fuzzy Ideals in AG-Groupoids. *Journal of Intelligent Systems*. Doi.org/10.1515/Jisys-2017-0258. (ISI).
5. **F.M. Khan** (with H. Khan, N. H. Sarmin, I. Gambo) New fuzzy generalized bi Γ -ideals of the type $(E, Evqk)$ in ordered Γ -semigroups. *Malaysian Journal of Fundamental and Applied Sciences* 13(4), (2017), 666-670. (ISI).
6. **F.M. Khan** (with H. Khan, N. H. Sarmin, I. Gambo) The characterization of regular ordered Γ -semigroups in terms of $(E, Evqk)$ fuzzy Γ -ideals. *Malaysian Journal of Fundamental and Applied Sciences* 13(4), (2017), 576-580. (ISI).
7. **F.M. Khan** (with H. Khan, N. H. Sarmin, A. Khan and M. Taj) Intuitionistic fuzzy interior ideal of semigroup based on intuitionistic fuzzy point. *Matriks Sains Matematik(MSMK) Vol. 1(2) 22-26 (2017)*.
8. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) New Types of Fuzzy Interior Ideals of Ordered Semigroups Based on Fuzzy Points. *Matriks Sains Matematik(MSMK) Vol. 1(1) 1-9 (2017)*.
9. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) Generalized Intuitionistic Fuzzy Interior Ideals of Semigroups. *Matriks Sains Matematik(MSMK) Vol. 1(1) 1-5 (2017)*.

2016:

10. **F.M. Khan** (with R. Khan, A. Khan and H. Khan) Uni-soft filters of ordered semigroups. *Sindh Univ. Res. Jour. (Sci. Ser.) Vol. 48 (4) 859-864 (2016) (December 2016) (ISI)*.
11. **F.M. Khan** (with, I. Gambo, N. H. Sarmin and H. Khan) New fuzzy generalized bi- Γ -ideals of the type (E, EV_{q_k}) inordered Γ -semigroups. *Jurnal Teknologi, (2016)(ISI)(Accepted)*.
12. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) New generalisation of interval-valued fuzzy filters of ordered semigroups. *Sindh Univ. Res. Jour. (Sci. Ser.) Vol. 48 (2) 383-388 (2016) (ISI)*
13. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) Bi-ideals of ordered semigroups based on the interval-valued fuzzy point. *Jurnal Teknologi, 78:2 (2016) 179-191. (ISI)*
14. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) Classification of Ordered Semigroups in Terms of Generalized Interval-Valued Fuzzy Interior Ideals, *Journal of Intelligent Systems*, DOI 10.1515/jisys-2015-0035 .(2016) **ISI**

2015:

15. **F.M. Khan** (with A. Khan, N.H. Sarmin and H. Khan) Some Innovative Types of Fuzzy Bi-Ideals in Ordered Semigroups, *Journal of Advanced Mathematics and Applications*, 4, 1-13, 2015.(**ISI**)
16. **F.M. Khan** (with H. Khan, N. H. Sarmin and A. Khan) Some characterizations of semigroups in terms of intuitionistic fuzzy interior ideals. *Journal of Prime Research in Mathematics*, 10, 19-36, 2015.

2014:

17. **F.M. Khan** (with N.H. Sarmin and A. Khan) A new approach toward fuzzy Γ -ideals in ordered Γ -semigroups, *Indian Journal of Pure and Applied Mathematics (ISI) (IF=0.274)* 45(3). 343-362, 2014.
18. **F.M. Khan** (with N.H. Sarmin and H. Khan) A new approach toward fuzzy generalized-ideals in ordered semigroups, *The World Scientific Journal Volume 2014 (2014)*, Article ID 275947, 9 pages (**ISI**) (**IF=1.73**) <http://www.hindawi.com/journals/tswj/2014/275947/>
19. **F.M. Khan** (with N.H. Sarmin and H. Khan) A new pattern of interval-valued fuzzy interior ideals in semigroups, *Science International-Lahore* 26(2),527-535,2014 (**ISI**).
20. **F.M. Khan** (with A. Khan, M. Shah and A. Ali) On commutative quasigroup. *International Journal of Algebra and Statistics*. 3: 2, 42-45, (2014).

21. **F.M. Khan** (with Akbar Zada · Nisar Ahmad · Ihsan Ullah Khan) On the Exponential Stability of Discrete Semigroups. Qual. Theory Dyn. Syst. DOI 10.1007/s12346-014-0124-x. **(ISI)(IF=0.717)**.
22. **F.M. Khan** (with N.H. Sarmin and H. Khan) A new interpretation of interval-valued fuzzy interior ideals of ordered semigroups, Science International-Lahore **27(1),29-37,2014 (ISI)**.

2013:

23. **F.M. Khan** (with N.H. Sarmin and A. Khan) Fuzzy generalized bi- Γ -ideals of type (λ, θ) in ordered Γ -semigroups. *Jurnal Teknologi*, **(SCOPUS) 62(3) (2013) 1-6**.
24. **F.M. Khan** (with N.H. Sarmin and A. Khan) New types of generalized fuzzy bi Γ -ideals in ordered- Γ semigroups. Sci.Int. (Lahore) **(ISI) 25(3) (2013) 411-418**.
25. **F.M. Khan** (with H. Khan, N.H. Sarmin and A. Khan) New types of intuitionistic fuzzy interior ideals of ordered semigroups, *Annals of Fuzzy Mathematics and Informatics*, 6 (3) (2013) 495-519.
26. **F.M. Khan** (with H. Khan, N.H. Sarmin and A. Khan) Generalized intuitionistic fuzzy interior ideals of semigroups. JSCSM, (2013) **(Presented, 2013)**.
27. **F.M. Khan** (with N.H. Sarmin, A. Khan and B. Davvaz) A study of fuzzy soft interior ideals of ordered semigroups. *Iranian Journal of Science and Technology*, 37A3: (2013) 237-249. **(ISI) (I.F= 0.2)**.

2012:

28. **F. M. Khan** (with A. Khan, Y.B. Jun and N.H. Sarmin) Ordered semigroups characterized by $(\epsilon, \epsilon \vee q_k)$ -fuzzy generalized bi-ideals, *Neural Comput. & Appl.* 21(1): (2012). S121-S132. **(ISI) (I.F=1.763)**.
29. **F.M. Khan** (with N.H. Sarmin and A. Khan) Some new characterization of ordered semigroups in terms of (λ, θ) -fuzzy bi-ideals, *International Journal of Algebra and Statistics*. 1(1) (2012), 22-32.
30. **F. M. Khan** (with A. Khan, N.H. Sarmin and B. Davvaz) New types of fuzzy bi-ideals in ordered semigroups, *Neural Comput. & Applic.* 21(1): (2012). S295-S305. **(ISI) (I.F= 1.763)**.
31. **F. M. Khan** (with A. Khan, N.H. Sarmin and B. Davvaz) Regular AG-groupoids characterized in terms of $(\epsilon, \epsilon \vee q_k)$ -fuzzy ideals, *Iranian Journal of Science and Technology*, IJST (2012) A2: 97-113. **(ISI) (I.F= 0.2)**.
32. **F. M. Khan** (with A. Khan and N.H. Sarmin) Semisimple $(\epsilon, \epsilon \vee q_k)$ -fuzzy quasi-ideals in ordered semigroups, *World Applied Sciences Journal*, 16 (12) (2012) 1688-1698. **(ISI)**
33. **F.M. Khan** (with N.H. Sarmin and A. Khan) A new approach towards fuzzy generalized bi- Γ -ideals in ordered Γ -semigroups. *ISPC 2012*, (27-30 November 2012) 71-85.

7. **F.M. Khan** (with N. Yufeng and S. Habib) Possibility Multi-Fuzzy Soft sets in Decision Making Problems.
8. **F.M. Khan** (with N. Yufeng and S. Habib) Double-framed Soft Semiprime Hemirings.
9. **F.M. Khan** (with N. Yufeng and S. Habib) ordered semigroups based on $(E, EV(IK, qk))$ -fuzzy quasi-ideals.

CONTACT PERSONS:

1. Prof. Dr. Nor Haniza Sarmin
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Last Updated: January 31, 2020