

Iftikhar Ahmed

The essence of Mathematics lies in its freedom – (G.Cantor)

Email: iftikharmath1985@gmail.com

Mobile: 03214694913

Address: House No. E-602/74A, Rehmat Chowk, Madina Colony, Walton Lahore Cantt

HEC approved supervisor

Education

- **PhD Mathematics**
COMSAT University Islamabad, Lahore Campus (2021)

Thesis Title: Topological Descriptors of OTIS Interconnection, Block Shift and Hierarchical Hypercube Networks
 - **Post Graduate Diploma (PGD)**
Riphah International University, Lahore (2019)
 - **MPhil Mathematics**
University of Engineering and Technology, Lahore (2013)
 - **MSc Mathematics**
University of Engineering and Technology, Lahore (2008)
 - **BSc Math A, B, Physics**
University of the Punjab, Lahore (2006)
 - **HSSC**
BISE, Lahore (2004)
 - **SSC:**
BISE, Lahore (2002)
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Professional Summary

- **Assistant Professor Mathematics**
- Duration: February, 21, 2022 to date.
University of Agriculture, Faisalabad Burewala Campus.

- **Assistant Professor Mathematics**
Duration: September,01, 2021 to February, 20,2022
 - **Riphah International University, Lahore**
 - **Senior Lecturer of Mathematics**
Duration: September,01, 2019 to August,31,2021
Riphah International University, Lahore
 - **Lecturer of Mathematics**
Duration: October, 2017 to August, 2019
Riphah International University, Lahore
 - **Lecturer of Mathematics**
Duration: October, 2013 to September, 2017
Lahore Leads University, Lahore
 - **Tutor of Mathematics**
Duration: November, 2012 to November, 2013
Virtual University of Pakistan
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Domains of Research

- Graph Theory
 - Cosmology
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Teaching

- Calculus
- Ordinary Differential Equations
- Partial Differential Equations
- Numerical Solution of Partial Differential Equations
- Integral Equations
- Linear Algebra
- Discrete Mathematics
- Vector and Tensor Analysis
- Linear Algebra

Research Articles

1. Jie Wu ,Saima Nazeer, **Iftikhar Ahmed** , and Farkhanda Yasmin Study of Graphene Networks and Line Graph of Graphene. Networks via NM-Polynomial and Topological Indices. Hindawei Journal of Mathematics. <https://doi.org/10.1155/2022/3809806>
2. Ertan Gudekli M. Junaid Kamran M. Zubair Iftikhar Ahmed , F(t,T)Study of anisotropic strange stars in Krori Barua metric under gravity Chinese Journal of Physics, <https://doi.org/10.1016/j.cjph.2021.08.006>
3. Tingmei Gao 1 and Iftikhar Ahmed2, Distance-Based Polynomials and Topological Indices for Hierarchical Hypercube Networks. Hindawei Journal of Mathematics <https://doi.org/10.1155/2021/5877593>
4. M. Zubair, Saira Waheed, M. Atif Fayyaz, and **Iftikhar Ahmad** “Energy constraints and the phenomenon of cosmic evolution in the $f(T,B)$ framework.”Eur. Phys. J. Plus (2018) 133: 452, DOI 10.1140/epjp/i2018-12252-2 (**IF 3.228**)
<https://link.springer.com/article/10.1140/epjp/i2018-12252-2>
5. Hai-Xia Li, Sarfaraz Ahmad, and **Iftikhar Ahmad** “Topology-Based Analysis of OTIS(Swapped) Networks OKn and OPn ”. Hindawi Journal of Chemistry, Volume 2019, Article ID 4291943, 11 pages (**IF 1.73**)<https://www.hindawi.com/journals/jchem/2019/4291943/>
6. Juanyan Fang, **Iftikhar Ahmed** , Abid Mehboob,Kashif Nazar, and Haseeb Ahmad. “Irregularity of Block Shift Networks and Hierarchical Hypercube Networks.” Hindawi Journal of Chemistry, Volume 2019, Article ID 1042308, 12pages. (**IF 1.73**)<https://www.hindawi.com/journals/jchem/2019/1042308/>
7. Murat Cancan, **Iftikhar Ahmad** , Sarfraz Ahmad, “Molecular descriptors of certain OTIS interconnection networks”. Proyecciones Journal of Mathematics. Vol. 39 No. 4 (2020): Special Issue: Mathematical Computation in Combinatorics and Graph Theory.<https://www.revistaproyecciones.cl/index.php/proyecciones/issue/view/312>

8. Murat Cancan, **Iftikhar Ahmad** , Sarfraz Ahmad
“Study of topology of block shift networks via topological indices”
Proyecciones Journal of Mathematics. Vol. 39 No. 4 (2020): Special Issue: Mathematical Computation in Combinatorics and Graph Theory.

<https://www.revistaproyecciones.cl/index.php/proyecciones/issue/view/312>
 9. Distance Based Polynomials and Topological Indices for Hierarchical Hypercube Networks"submitted to the journal of " Journal of Mathematics" under the special issue "Advances in Graph Labeling".(IF 0.971
 10. Nadeem Azhar, Abdul Jawad, Sarfraz Ahmad and **Iftikhar Ahmed**, “Cosmological Implications of Dark energy models in modified gravity”, Int. J. Geom. Meth. Mod. Phys. 15(2018) 1850063.
<https://www.worldscientific.com/doi/abs/10.1142/S0219887818500342>.
(IF 1.80)
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Technical Skills

- COCOA
 - MATLAB
 - Mathematica
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CONFERENCES/ SEMINARS/ WORKSHOPS

- 1) Participation in the workshop on “ Two Days Workshop on Modern Aspects of Algebra and Graph Theory” on 27-28 March, 2015 at COMSATS University Islamabad, Lahore Campus
- 2) Participation in the workshop on “ 2nd International Workshop on Modern Aspects of Algebra and Graph Theory” on November 02-03, 2016 at COMSATS University Islamabad, Lahore Campus
- 3) Participation in the workshop on “Relativistic Astrophysics and Cosmology” on November 24-25, 2016 at COMSATS University Islamabad, Lahore Campus
- 4) Participation in the workshop on “one day workshop on Differential Equations” on August 04, 2016 at COMSATS University Islamabad, Lahore Campus
- 5) Participation in the Workshop on “Combinatorial Commutative Algebra” CIMPA School on March 05-14, 2018 at COMSATS University Islamabad, Lahore Campus
- 6) Participation in the 1st PU International Conference on “Gravitation and Cosmology” on January 27-31, 2019 at University of the Punjab, Lahore-Pakistan

- 7) Participation in the Workshop on “2nd International Conference on Recent Advances in Applied Mathematics (ICRAAM) “ on February 20-22, 2019 at COMSATS University Islamabad, Lahore Campus
- 8) Participation as an organizer in the National Workshop on “Recent Advances in Graph Theory and Combinatorics” on December 14-15, 2019 at RIPHAH International University, Lahore Campus

PROFESSIONAL DEVELOPMENT

- I have been given charge as In charge Undergraduate program Mathematics Riphah International University Lahore Campus.
- Member of Proctorial board of Riphah International University Lahore Campus.
- Member of Board of Studies (BOS) Department of Mathematics Riphah International University Lahore Campus.
- Member Departmental Admission Committee Riphah International University Lahore Campus.
- I have been assigned duties as advisor BS Mathematics at Lahore Leads University.
- Member of Proctorial board of Lahore Leads University.
- Member of DASC (Departmental Advance Studies Committee).

References

1) Dr. Sarfraz Ahmad

Professor Department of Mathematics,
COMSAT University Islamabad, Lahore Campus
Email: sarfrazahmad@cuilahore.edu.pk

2) Dr. Waqas Nazeer

Assistant Professor Department of Mathematics,
Govt. College University, Lahore
Email: nazeer.waqas@ue.edu.pk

3) Dr. Kamran Jamil

Associate Professor

Department of Mathematics,

Riphah International University, Lahore Campus

Email: kamran.jamil@riphah.edu.pk