

Personal Information

Name: **Dr. Ahmad Bilal**

Address: University of Rasul, Mandi Bahauddin, Pakistan.

E-mail: drahmad.bilal@putrasul.edu.pk

WeChat ID: [DrAhmadBilal36402](#)

GoogleScholar: https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AL3_zijnLsN2FXwhe3WBvnWz5K9IVKbzQPTuqHYOmizF-T7rHrMhv-H-x4Ve_vROGYTE66rnByBHRtYqdlHsFq6570GSsvNA32sbzhzsA9U&user=AJN0GfUAAAAJ

Tel: (+92) 308 2386021, (+92) 342 6236020

Date of birth: November 05, 1997

Nationality: Pakistani

Sex: Male

Language: Urdu, English



Professional Experience

- 02 December 2024 to date, working as Lecturer Mathematics at **University of Rasul, Mandi Bahauddin**, Pakistan.
- 09 September 2024 to 01 December 2024, member of the Academic Council of **Green International University Lahore**, Pakistan.
- 02 November 2024 to 01 December 2024, worked as Head of the Department of Sciences at **Green International University Lahore**, Pakistan.
- 16 September 2024 to 01 November 2024, worked as an Assistant Professor at **Green International University Lahore**, Pakistan.
- March 2021-December 2024, worked as visiting lecturer at **University of Education, Lahore**, Pakistan.
- October 2019-May 2020, worked as CTI Mathematics in **Higher Education Department, Government of the Punjab**, Pakistan.

Research Interest

- Graph Theory
- Group Theory
- Linear Algebra
- Algebraic Graph Theory
- Graph Energy
- Graph Spectral Radii
- Spectral Graph Theory
- Combinatorics

- Pure Mathematics
- Algebra

Academic Qualifications

Ph.D. Mathematics University of the Punjab, Lahore-Pakistan. Thesis Title: Bounds for the Spectral Radii and Energies of Graph Operations	Dec 2020-May 2024
M.Phil. Mathematics Bahauddin Zakariya University, Multan-Pakistan. Thesis Title: On the Status Coindex Distance Sum of Graphs Associated With Groups	2018- 2020
M.Sc Mathematics University of Education, Lahore, Pakistan.	2016-2018
B.Sc (Physics, Mathematics A & B) Bahauddin Zakariya University, Multan-Pakistan.	2014-2016
F.Sc. (Science) BISE Sahiwal, Pakistan.	2012-2014
Matriculation (Science) BISE Multan, Pakistan.	2010-2012

Scientific Computing Tool & Software

Well understanding of following tools;

1. Matlab
2. Maple
3. SWP
4. Latex

Conferences & Training Seminars

- [3rd Garrison International Conference on Pure and Applied Mathematics](#) arranged by Department of Mathematics, Lahore Garrison University (LGU) on 21 & 22 June 2023.
- Two days conference on [1st UOL International Conference on Mathematics](#), organized by department of Mathematics, University of Lahore, Pakistan.
- One day Olympiad [5th CASPAM Regional Student Olympiad of Mathematics](#), organized by the National Mathematical Society of Pakistan.
- Three days seminar on [MAT-LAB](#), organized by department of Mathematics, University of the Punjab, Pakistan.
- Presented talk on [Change in Laplacian Energy Due to Edge Deletion](#) in weekly departmental seminar, organized by department of Mathematics, University of the Punjab, Pakistan.
- Ph.D. talk on [Siedel and Sum Connectivity Energies and Spectral Radii of Some Graph Operations](#) in weekly departmental seminar, organized by department of Mathematics, University of the Punjab, Pakistan.
- Ph.D. talk on [Extreme Degree Spectral Radii of Graph Operations](#) in weekly departmental seminar, organized by department of Mathematics, University of the Punjab, Pakistan.

- Ph.D. talk on [Energies and Spectral Radii of Graph Operations](#) in weekly departmental seminar, organized by department of Mathematics, University of the Punjab, Pakistan.

List of Publications

1. Xiujun Zhang, **Ahmad Bilal**, M. Mobeen Munir, and Hafiz Mutte ur Rehman. Maximum degree and minimum degree spectral radii of some graph operations. *Mathematical Biosciences and Engineering*, 19(10):10108–10121, 2022. doi:10.3934/mbe.2022473.
2. **Ahmad Bilal** and Muhammad Mobeen Munir. ABC energies and spectral radii of some graph operations. *Frontiers in Physics*, 10, 2022. doi:10.3389/fphy.2022.1053038.
3. **Ahmad Bilal** and Muhammad Mobeen Munir. Randic and reciprocal randic spectral radii and energies of some graph operations. *Journal of Intelligent and Fuzzy Systems*, 44(4):5719–5729, 2023. doi:10.3233/JIFS-221938.
4. **Ahmad Bilal** and Muhammad Mobeen Munir. SDD spectral radii and SDD energies of graph operations. *Theoretical Computer Science*, 1007:114651, 2024. doi:10.1016/J.TCS.2024.114651.
5. **Ahmad Bilal**, Muhammad Mobeen Munir, Muhammad Imran Qureshi, and Muhammad Athar. ISI spectral radii and ISI energies of graph operations. *Frontiers in Physics*, 11, 2023. doi:10.3389/fphy.2023.1149006.
6. **Ahmad Bilal**, and Muhammad Mobeen Munir. ISI Energy Change due to an Edge Deletion. *International Journal of Quantum Chemistry*, <https://doi.org/10.1002/qua.27501>.
7. **Ahmad Bilal**, M. Mobeen Munir. Modified Sombor Spectral Radii and Modified Sombor Energies of Splitting and Shadow graphs. *Scientific Annals of Computer Science*, 2024. doi: 10.47743/SACS.2024.2.89

References

1. **Dr. Muhammad Mobeen Munir**
Department of Mathematics
University of the Punjab, Lahore, Pakistan.
Email: mmunir.math@pu.edu.pk
2. **Dr. Faisal Ali**
Center for Advanced Studies in Pure and Applied Mathematics
BZU, Multan, Pakistan.
Email: faisalali@bzu.edu.pk