

Muhammad Yasir Hayat Malik

PERSONAL DETAILS

Residential Address: House # ½, Near Water Supply, Block No. 6, Jauharabad, District Khushab.

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Date of Birth: 19th June, 1987

Nationality: Pakistani

CAREER OBJECTIVE

Devoted to explore and extending the limits of what is currently known through innovative and high-quality work. I want to utilize my capacity to devise, design and conduct research that has real academic weight and gain deep insight in mathematics.

EDUCATION

2017 – 2022	Government College University , Faisalabad, Pakistan <i>PhD in Mathematics.</i> CGPA 4.00
2010 – 2012	National University of Sciences and Technology , Islamabad, Pakistan <i>M.Phil Mathematics</i> CGPA 3.25
2005 – 2009	Government College University , Lahore, Pakistan BS (Hons) in Mathematics CGPA 3.40

WORK EXPERIENCE

23-12-2022 – till date	<p>University of Education, Lahore, Pakistan www.ue.edu.pk</p> <p>Assistant Professor Mathematics, University of Education, Lahore (Jauharabad Campus)</p>
24-09-2014 – 23-12-2022	<p>Lecturer in Mathematics University of Education, Lahore (Jauharabad Campus)</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • Teaching Mathematics courses to BS, MSc and MS classes. • Worked as department coordinator (2016-2018) • Focal Person Departmental UMS • Incharge Event Management Society, Incharge Sports • Member Mosque Committee
09-09-2013 – 17-01-2014	<p>National University of Sciences and Technology, Islamabad, Pakistan www.nust.edu.pk</p> <p>Temporary Visiting Faculty (Mathematics) National University of Sciences and Technology, Islamabad</p> <p>Responsibilities:</p>

	<ul style="list-style-type: none"> • Teaching Calculus course to BS Civil Engineering students • Conduct exams and manage the duties
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RESEARCH PUBLICATIONS

- Khan, S., **Malik, M. Y. H.**, Colakoglu, O., Ishaq, M., & Faryad, U. (2025). A comparative study: Domination parameters and physico-chemical properties of benzenoid hydrocarbons. *Polycyclic Aromatic Compounds*, 45(5), 793-809.
- Rahman, A. U., El-Morsy, S., Rahman, H. U., & **Malik, M. Y. H.** (2025). A synergistic multi-attribute decision-making strategy for selecting sustainable educational institution site using parameterized single-valued neutrosophic soft sets. *Journal of Uncertain Systems*, 18(01), 2450024.
- Hayat, S., **Malik, M. Y. H.**, Alanazi, S. J., Fazal, S., Imran, M., & Azeem, M. (2024). Optimizing predictive models for evaluating the F-temperature index in predicting the π -electron energy of polycyclic hydrocarbons, applicable to carbon nanocones. *Scientific reports*, 14(1), 25494.
- Hayat, S., **Malik, M. Y. H.**, & Fazal, S. (2024). Novel temperature-based topological indices for certain convex polytopes. *Contemporary Mathematics*, 4726-4762.
- Saeed, M., Basit, A. M., Rahman, A. U., & **Yasir, H. M. M.** (2024). A multi-attribute decision making context for supply chain management using possibility single-valued neutrosophic soft settings. *Yugoslav Journal of Operations Research*, (00), 33-33.
- Hussain, R. Y., Xuezhou, W., Hussain, H., Ahmad, I., Irshad, H., **Yasir, M.**, & **Malik, H.** (2024). Firm Attributes and Government External Debt as Determinants of Corporate Short Debt Maturity in a Post-CPEC Scenario. *Zagreb International Review of Economics & Business*, 27(1), 137-154.
- Waheed, A., Subhan, F., Suud, M. M., **Malik, M. Y. H.**, Mirza, A., & Afzal, F. (2023). Construction of nonlinear component of block cipher using coset graph. *AIMS Math*, 8(9), 21644-21667.
- Hayat, S., Khan, M. A., Khan, A., Jamil, H., & **Malik, M. Y. H.** (2023). Extremal hyper-Zagreb index of trees of given segments with applications to regression modeling in QSPR studies. *Alexandria Engineering Journal*, 80, 259-268.
- **Malik, M. Y. H.**, Binyamin, M. A., & Hayat, S. (2021). Correlation ability of degree-based topological indices for physicochemical properties of polycyclic aromatic hydrocarbons with applications. *Polycyclic Aromatic Compounds*, DOI: 10.1080/10406638.2021.1977349.
- **Malik, M. Y. H.**, Hayat, S., Khan, S., & Binyamin, M. A. (2021). Predictive potential of spectrum-based topological descriptors for measuring the π -electronic energy of benzenoid hydrocarbons with applications to boron triangular and boron α -nanotubes. *Mathematical Methods in the Applied Sciences*, 1–22, DOI: 10.1002/mma.7161.
- Hayat, S., **Malik, M. Y. H.**, Ahmad, A., Khan, S., Yousafzai, F., & Hasni R. (2021). On Hamilton-connectivity and detour Index of certain families of convex polytopes. *Mathematical Problems in Engineering*, 2021, ID 5553216.
- Khan, S., Hayat, S., Khan, A., **Malik, M. Y. H.**, & Cao, J. (2021). Hamilton-connectedness and Hamilton-laceability of planar geometric graphs with applications. *AIMS Mathematics*, 6(4), 3947–3973.
- Hayat, S., Khan, A., **Malik, M. Y. H.**, Imran, M., & Siddiqui, M. k. (2020). Fault-tolerant metric dimension of interconnection networks. *IEEE Access*, 8, 145435–145445.
- Imran, M., Hayat, S., & **Malik, M. Y. H.** (2014). On topological indices of certain interconnection networks. *Applied Mathematics and Computation*, 244, 936-951.

- Imran, M., Malik, M. A., & **Malik, M. Y. H.** (2014). ON SUPER EDGE-MAGIC TOTAL LABELING OF REFLEXIVE W-TREES. *Science International*, 26(2).
- Imran, M., Malik, M. A., & **Malik, M. Y. H.** (2014). On super edge-magic total labeling of certain classes of graphs. *International Journal of Mathematics and Soft Computing*, 4(2), 49-57.

Area of Interest

Chemical Graph Theory, Metric Graph Theory

Combinatorial theory

Discrete Structures

OTHER SKILLS AND CERTIFICATES

Computer Skills:

- Microsoft XP applications (Word, Excel, Office, PowerPoint)
- Latex

PERSONAL COMPETENCIES

- Ability to work in a fast-paced environment to set deadlines
- Excellent oral and written correspondence with an exceptional attention to detail
- Highly organised with a creative flair for project work.

Language Skills:

- Urdu
- Punjabi
- English

References:

- **Prof. Dr. Ikramullah Lali**
Principal, UE Jauharabad Campus
principaljbd@ue.edu.pk
- **Prof. Dr. Azizullah Awan**
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University of Punjab. Lahore
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