



## Haseeb Ahmad

Nai abadi shah shaheed atto ke awan p/o batapur Lahore

Date of Birth: Nov 18, 1991

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**OBJECTIVE:** Research & Teaching.

**EDUCATION:**

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COMSATS University Islamabad, 2017-2022  
Lahore Campus

Doctor of philosophy

Major: Mathematics

Area of Concentration: Chemical graph theory

COMSATS University Islamabad, 2013-2015  
Lahore Campus

Master of Science

Major: Mathematics

Area of Concentration: Graph labeling

University Of Education, Lahore 2011-2013

Master of Science

Major: Mathematics

**Prior Teaching Experience:**

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Assistant Professor (Lahore Leads University) May. 2022 – present

Lecturer (Lahore Leads University) Nov. 2015 – April. 2022

**Publications:**

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- Zamri, S. N. A., Ahmad, H., Azeem, M., & Almohsen, B. (2025). Topological numbers in uniform intuitionistic fuzzy environment and their application in neural network. *Artificial Intelligence Review*, 58(4), 110.  
<https://doi.org/10.1007/s10462-024-10965-2>
  - Ahmad, H., Siddiqui, M. K., Hanif, M. F., & Gegbe, B. (2024). Exploring the Distance-Based Topological Indices for Total Graphs via Numerical Comparison. *Journal of Mathematics*, 2024(1), 4423113.  
<https://doi.org/10.1155/jom/4423113>
  - Al Khabyah, A., Ahmad, H., Ahmad, A., & Koam, A. N. (2024). A uniform interval-valued intuitionistic fuzzy environment: topological descriptors and their application in neural networks. *AIMS Mathematics*, 9(10), 28792-28812.  
<https://DOI:10.3934/math.20241397>
  - AHMAD, H., & AZEEM, M. (2024). Face-degree-based topological descriptors of germanium phosphide. *Chinese Journal of Analytical Chemistry*, 52(8), 100429.  
<https://doi.org/10.1016/j.cjac.2024.100429>
  - Wang, D., Ahmad, H., & Nazeer, W. (2020). Hosoya and Harary polynomials of TUC 4 nanotube. *Mathematical Methods in the Applied Sciences*.  
<https://doi.org/10.1002/mma.6487>
  - Ahmad, H., Hussain, M., Nazeer, W., & Chu, Y. M. (2020). Distance-based invariants of zigzag polyhex nanotube. *Mathematical Methods in the Applied Sciences*.  
<https://doi.org/10.1002/mma.6896>

- Cancan, M., Hussain, M., & Ahmad, H. (2020). Distance and eccentricity based polynomials and indices of  $m$ -level Wheel graph. *Proyecciones (Antofagasta)*, 39(4), 869-885. [10.22199/issn.0717-6279-2020-04-0054](https://doi.org/10.22199/issn.0717-6279-2020-04-0054)
- Ali, A., Gao, W., Ahmad, H., & Nazeer, W. (2020). Hosoya and Harary Polynomials of Zigzag and Triangular Benzenoid Systems. *Utilitas Mathematica*, 117, 69-97.
- Cheng, Z. L., Ali, A., Ahmad, H., Naseem, A., & Chaudhary, M. A. (2020). Hosoya and Harary polynomials of hourglass and rhombic benzenoid systems. *Journal of Chemistry*, 2020(1), 5398109. <https://doi.org/10.1155/2020/5398109>
- Chen, L., Mehboob, A., Ahmad, H., Nazeer, W., Hussain, M., & Farahani, M. R. (2019). Hosoya and Harary polynomials of TOX ( $n$ ), RTOX ( $n$ ), TSL ( $n$ ) and RTSL ( $n$ ). *Discrete Dynamics in Nature and Society*, 2019(1), 8696982. <https://doi.org/10.1155/2019/8696982>
- Kang, S. M., Hashim, I., Ahmad, H., & Kwun, Y. C. (2019). Distance and eccentricity based invariants of windmill graph. *Journal of Discrete Mathematical Sciences and Cryptography*, 22(7), 1323-1334. <https://doi.org/10.1080/09720529.2019.1691330>
- Kang, S. M., Asghar, A., Ahmad, H., & Kwun, Y. C. (2019). Irregularity of Sierpinski graph. *Journal of Discrete Mathematical Sciences and Cryptography*, 22(7), 1269-1280. <https://doi.org/10.1080/09720529.2019.1698186>
- Fang, J., Ahmed, I., Mehboob, A., Nazar, K., & Ahmad, H. (2019). Irregularity of block shift networks and hierarchical hypercube networks. *Journal of Chemistry*, 2019(1), 1042308. <https://doi.org/10.1155/2019/1042308>

### **Conferences and seminars:**

Ripha International University, Dec 14-15, 2019  
Lahore Campus

As a participant:

National Workshop on "Recent Advances in Graph Theory and Combinatorics"

COMSATS University Islamabad, Feb20-22, 2019  
Lahore Campus

As a speaker:

2<sup>nd</sup> International Conference on Recent Advances in Applied Mathematics (ICRAAM)

COMSATS University Islamabad, March 05-14,2018  
Lahore Campus

As a participant:

Workshop on "Combinatorial Commutative Algebra" CIMPA School.

COMSATS University Islamabad, March 27-28, 2015  
Lahore Campus

As a participant:

Workshop on "Modern Aspects of Algebra and Graph Theory".

### **MS Supervision:**

| <u>Name</u>              | <u>Title of MS Theses</u>  | <u>Year</u> |
|--------------------------|--|-------------|
| Mr. Ali Nawaz            | Analysis of $K$ - Banhatti Indices and Entropy for Starphene Graph with Linear Regression Approach | 2025        |
| Tahreem Arshad           | Measuring Irregularities of Line Graphs of Stellated Structures                                    | 2024        |
| Hafiza Tayyebah Siddiqui | Topological Properties of Nano-Structures using Face Index   | 2024        |
| Javaid Zulfiqar Ali      | Physio-Chemical Characterization of Nanostar Dendrimers using Entropy                              | 2024        |

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| <i>Ahmad Raza</i>             | <i>A Comparative Study of Degree Based Polynomials and Indices of Indium Phosphide</i> | 2023 |
| <i>Zarqa Kanwal</i>           | <i>A Comparative Study of Web Class Graphs by Topological Indices</i>                  | 2023 |
| <i>Muhammad Kamran Naseer</i> | <i>A Study of Weighted Entropies of Bilayer Germanium Phosphide</i>                    | 2023 |
| <i>Muhammad Ishfaq</i>        | <i>Connection Indices of Optimal Cost Networks</i>                                     | 2022 |
| <i>Muhammad Faisal</i>        | <i>Analysis of Irregularity Measures of Bi-layer Germanium Phosphide</i>               | 2022 |
| <i>Ammar Hassan</i>           | <i>Reversed Degree-based Descriptors of Product of Graphs</i>                          | 2021 |
| <i>Nyla Majeed</i>            | <i>A Comparative Study of Network and its Line Graph</i>                               | 2021 |
| <i>Raja Wajahat Mahmood</i>   | <i>Topological Indices of Stellated Benzenoid System</i>                               | 2021 |
| <i>Zahid Saleem</i>           | <i>On Eccentric Invariants of Starphene Graphs</i>                                     | 2021 |
| <i>Tajammal Ahmad</i>         | <i>Irregularity and Spectrum of Some Graph Network</i>                                 | 2020 |

**Research Area/Interests:**

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- *Chemical graph theory/ Fuzzy Graph Theory*

**Additional Skills:**

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MATLAB, Mathematica, Python, Latex, Mayura, ChemDraw and Office.

Deputy Director Academics at Lahore Leads University from 04-04-2022 till date.