NASIR ALI

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➢ Education

COMSATS University Islamabad, Lahore Campus	Lahore, Punjab
PhD Mathematics	Feb 2021 - Present
COMSATS University Islamabad, Vehari Campus (3.56/4)	Vehari, Punjab
MS Mathematics	Feb 2019 – Feb 2021

➢ Professional Experience

COMSATS University Islamabad, Vehari Campus   Vehari, Pakistan

COMSATS aims to reduce the ever-growing gap between the developed and developing world through useful
applications of science and technology   Jan 2023-up to date

Lecturer of Mathematics:

− Enhancement of Teaching skills: Teaching in COMSATS enables me to learn and adopt modern teaching skills.

AMAL ACADEMY   Lahore, Pakistan

Education startup funded by Stanford University that teaches professional skills   Dec 2020 – Feb 2021
To students and corporations

Career-Prep Fellow:

− *Communication:* Completed a competitive written application and interview process to be selected from over 4500 applicants for intensive 3-month Fellowship funded by Stanford University
− *Skills development:* Investing 150 hours in order to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that will help me make a deeper impact on the job

University of Education   Vehari, Pakistan

The University of Education is a public research university.   Oct 2018- Aug 2020

Visiting Lecturer of Mathematics:

− Advance Teaching skills: Teaching in research institute enable me to learn the advance mathematics computing skills and some software's (e.g., MS Office, MATLAB, MAPLE)

Govt. Post Graduate College   Vehari, Pakistan

Govt Post Graduate college is affiliated with BISE Multan.   Oct 2018 – Sep 2019

CTI Mathematics:

− *Skills development:* Spending almost a year with almost 70+ students in each class developed teaching skills (e.g., Pressure absorbing, leadership, problem solving, teamwork, etc.) that will help me make a deeper impact on the job.

➢ Academic Experience

MS Thesis   Vehari, Pakistan

Completed 6 credit hours thesis work (COMSATS University Islamabad, Vehari Campus)   Jan 2020 – Jan 2021

Researcher:

− *Area of Research:* Fractional Calculus
− *Research Topic:* Some Modified Numerical Method Using Fractional Derivative for Solving Nonlinear Equations
− *Computing Software and Research Skills:* During research learn many software's that are necessary for a mathematics teacher (e.g., Scientific Workplace, Latex, MS Word, etc.) and research skills *(e.g., Books searching, Journals details, action research, etc.)*

➢ Projects/Publications

Research Paper

− *Research Paper:* MAHBOOB, A., HUSSAIN, T., AKRAM, M., MAHBOOB, S., **ALI, N.,** & RAZA, A. (2020). CHARACTERIZATIONS OF CHEVALLEY GROUPS USING ORDER OF THE FINITE GROUPS. *Journal of Prime Research in Mathematics*, *16*(1), 46-51.
− *Research Paper:* Safdar, M., Mushtaq, T., **Ali, N.,** & Akgül, A. (2023). On study of flow features of hybrid nanofluid subjected to oscillatory disk. *International Journal of Modern Physics B*, 2450356.

- *Research Paper:* **Ali, N.,** Kousar, Z., Safdar, M., Tolasa, F. T., & Suleiman, E. (2023). Mapping Connectivity Patterns: Degree-Based Topological Indices of Corona Product Graphs. *Journal of Applied Mathematics*, *2023*.
- *Research Paper:* **Ali, N.,** Siddiqui, H. M. A., & Qureshi, M. I. (2023). A Graph-Theoretic Approach to Ring Analysis: Dominant Metric Dimensions in Zero-Divisor Graphs. *arXiv preprint arXiv:2312.16005*.
- *Research Paper:* **Ali, N.,** Waseem, M., Safdar, M., Akgül, A., & Tolasa, F. T. (2024). Iterative solutions for nonlinear equations via fractional derivatives: adaptations and advances. *Applied Mathematics in Science and Engineering*, *32*(1), 2333816.
- *Research Paper:* **Ali, N.** (2024). Algorithm for Visualization of Zero Divisor Graphs of the Ring $\mathbb{Z}_n$ Using MAPLE Coding. *Open Journal of Discrete Mathematics*, *14*(1), 1-8.

➢ Research Student List.

Following students have done the final year projects under my supervision	Vehari, Pakistan
- *Mubarrah Tariq and Shrish Riaz (Topic: On dominant metric dimension of graphs)*	2022-2023
- *Riffat Nazir and Nabeela Zulfiqar (Topic: Studying algebraic structures)*	2022-2023
- *Rimsha Munir and Ruqayya Bibi (Topic: Zero divisor graphs and their properties)*	2022-2023
- *Gulam Yaseen and Muhammad Asif (Topic: Study of Compressed zero divisor graphs)*	2023-2024
- *Samiya Yaseen, Muhammad Irfan & Iqra (Topic: A Survey on zero divisor graphs)*	2023-2024
- *Ayesha Siddiqua and Muhammad Amir (Topic: Cryptography with the help of graphs)*	2023-2024

➢ Extracurricular & Volunteer Experience

One Day Symposium on Pure and Applied Mathematics	Vehari, Pakistan
- *Secretary Symposium organizer:* Managed the organizing work of symposium	2019-2020

➢ Honors and Awards

ACADEMIC SCHOLARSHIPS	Vehari, Pakistan
- Received Yearly merit-based academic scholarship from University of Education.	2014-2018

ONLINE COURSES	Vehari, Pakistan
- Training Certificate in Digital Literacy and Freelancing	2019-2020

JOURNALS REVIEWER	International
- European Journal of Pure and Applied Mathematics	
- Chaos Theory and Applications	
- Alexandria Journal of Engineering	
- Journal of Applied Mathematics	

AWARDS AND CERTIFICATIONS	Vehari, Pakistan
- Received merit-based Laptop Award from Chief Minister Punjab	2016
- Received Certificate of Recognition presented to LSBE Graduate (Life skill-based education)	2010
- Received Excellence certificate, 2nd position in Chief Minister's speech contest.	2008