

# SYED AZKAR HUSSAIN SHAH BUKHARI

## Lecturer Mathematics

Accomplished Mathematics educator and academic professional with over 10 years of experience in teaching, curriculum design, and student mentorship at the tertiary level. Demonstrates a strong command of mathematical theory and computational methods, coupled with the ability to relate abstract concepts to practical and interdisciplinary contexts. Committed to fostering analytical thinking, research aptitude, and academic excellence among students. Recognized for developing evidence-based instructional strategies, conducting accurate academic assessments, and contributing to a culture of scholarly growth and innovation.



### Academic Qualifications

- **B.Ed. (1.5 years)** 2023-2025  
Govt. Graduate College, Civil Lines, Sheikhpura.  
Institute of Education and Research  
University of the Punjab, Lahore.
- **M.Phil Mathematics** 2020-2022  
Department of Mathematics  
University of the Punjab, Lahore.
- **B.S Mathematics** 2015-2019  
Department of Mathematics  
University of the Punjab, Lahore.
- **F.Sc (Pre-Engg.)** 2013-2015  
Govt. Islamia College Civil Lines, Lahore.
- **Matriculation** 2011-2013  
City Distt. Govt. Boys High School, Factory Area Shahdara,  
Lahore.

### Computer and Software Skills

- **Microsoft Office Package**  
Microsoft Word, Excel, Power Point
- **Mathematical Software**  
MATHEMATICA, MATLAB, Latex

### Research Interest

- Applied Mathematics (Bio-Mathematics)

#### **M.Phil Thesis Titled,**

“Study of Colonic Crypt and Colorectal Cancer Model through Fractional Derivative.”

**Supervised By:** Dr. Aziz Ullah Awan

**Associate Professor**

Department of Mathematics

University of the Punjab Lahore, Pakistan.

### Personal Information

**Father Name:** Syed Zulifqar Ali Shah

**Date of Birth:** Feb 18, 1999

**Marital Status:** Single

**CNIC:** 35202-5606115-9

**Emails:** [syed.azkar@uaf.edu.pk](mailto:syed.azkar@uaf.edu.pk)  
[syedazkar05@gmail.com](mailto:syedazkar05@gmail.com)

**Contact No:** 0316-7238324

**Address:** Farkhabad Main Bazar Bara Dari  
Road shahdara, Lahore.

### Highlights

- ✓ Effective Communication
- ✓ Innovative Teaching Practices
- ✓ Collaborative Engagement
- ✓ Academic Leadership
- ✓ Academic Scheduling
- ✓ Curriculum and Lesson Design
- ✓ Quality Assurance in Assessments
- ✓ Students Evaluation
- ✓ Students Mentorship

### Interests or Pastimes

- ✓ Reading Novels and Poetry
- ✓ Writing Poetry
- ✓ Passion for Nature
- ✓ Listening to Music

### Languages

- ✓ Urdu
- ✓ English
- ✓ Punjabi

## Academic Achievements

1. Awarded the **National Mathematical Society of Pakistan (NMSP) Scholarship** worth **Rs. 20,000** in recognition of outstanding academic performance during the M.Phil Mathematics program. **Department of Mathematics, University of the Punjab, Lahore.** (2021)
2. Secured **Third Position** in the **Seerat-un-Nabi (PBUH) Speech Competition** and received a Certificate of Achievement in recognition of outstanding oratory skills. (2018)  
**Department of Mathematics, University of the Punjab, Lahore.**
3. Earned a merit-based **scholarship** of **Rs. 2,000 per month** for consistently achieving over **90% marks** in monthly and regular assessments during **F.Sc. Part-II.** (2014-2015)  
**Al-Hadi Group of Academies, Shahdara Lahore.**
4. Awarded a **Laptop** under the **Prime Minister's Laptop Scheme** in recognition of academic excellence and merit-based performance. (2014)
5. Granted **tuition-free education** in recognition of securing the top position in **10<sup>th</sup> Class** based on outstanding performance in monthly and regular assessments. (2013- 2014)  
**Adeel Science Academy, Farkhabad Shahdara Lahore.**
6. Awarded a **Solar Panel** under the **Prime Minister's Solar Panel Scheme** in recognition of merit-based academic performance. (2013)
7. Received **shields and medals** for securing **First Position** consecutively from **Class I to Class VIII** in annual examinations, recognizing consistent academic excellence. (2004-2010)  
**Govt. Boys Middle School, Farkhabad Shahdara Lahore.**

## Employment History

- Lecturer Mathematics (Regular) **2024- Present**  
**University of Agriculture Faisalabad Constituent College, Toba Tek Singh.**
- Lecturer Mathematics (Regular) **2021-2022**  
**Superior Group of Colleges, Sheikhpura.**
- Mathematics Teacher (Evening) **2020-2021**  
**Pak Lyceum School and Academy, Shahdara Lahore.**
- Lecturer Mathematics (Regular) **2019-2020**  
**Punjab Group of Colleges, Shakargarh.**
- Mathematics Teacher (Evening) **2017-2019**  
**Pak Horizon Institute, Shahdara Lahore.**
- Mathematics Teacher (Evening) **2015-2019**  
**The Knowledge Inn School and Academy, Shahdara Lahore.**
- Mathematics Teacher (Evening) **2015-2019**  
**Al-Hamd Institute, Shahdara Lahore.**

## Employment Achievements

- **Best Teacher Award** **2021**  
**Pak Lyceum Academy, Shahdara Lahore.**
- **Excellence in Service Award Twice** **2017, 2018**  
**Pak Horizon Institute, Shahdara Lahore.**
- **Best Cooperative Teacher Award** **2018**  
**The Knowledge Inn School and Academy, Shahdara Lahore.**
- **Best Teacher Award** **2017**  
**The Knowledge Inn School and Academy, Shahdara Lahore.**

## Academic and Administrative Skills

- **Deputy Incharge- Admissions** (February, 2026- Present)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Assisted in overseeing the admissions process, including application review, merit evaluation, coordination with academic departments and ensuring compliance with institutional policies.
- **Member, Internship Committee of BS-Mathematics (8<sup>th</sup> Semester)** (2026)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Contributed to planning, coordinating, and supervising student internships, ensuring alignment with academic objectives and professional development goals.
- **Supervisor, Technical Reports of BS-Mathematics and BS-Physics (8<sup>th</sup> Semester)** (2026)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Supervised and guided undergraduate students in the preparation, analysis, and presentation of technical reports, ensuring adherence to academic standards and research methodologies.
- **Academic Advisor/Tutor, BS-Mathematics and BS-Physics (6<sup>th</sup> and 8<sup>th</sup>, Spring Semesters)** (2026)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Provided academic advising and mentorship to undergraduate students, guiding course selection, monitoring academic progress and supporting student development throughout the semester.
- **Academic Advisor/Tutor, BS-Mathematics (1<sup>st</sup> and 5<sup>th</sup>, Winter Semesters)** (2025-2026)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Provided academic advising and mentorship to undergraduate students, guiding course selection, monitoring academic progress and supporting student development throughout the semester.
- **Supervisor, Technical Reports of BS Mathematics (8<sup>th</sup> Semester)** (2025)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Supervised and guided undergraduate students in the preparation, analysis, and presentation of technical reports, ensuring adherence to academic standards and research methodologies.
- **Assistant Superintendent, Boys Hostel** (August, 2025- Present)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Oversaw student accommodation operations, ensured discipline and welfare, coordinated administrative matters and maintained a safe and conducive residential environment.
- **Member, Seminar Committee of M.Phil-Zoology** (December, 2024- Present)  
University of Agriculture Faisalabad, Constituent College Toba Tek Singh.  
Contributed to the planning, coordination, and evaluation of postgraduate seminar activities, supporting academic discourse and research presentations within the department.
- **Head of Mathematics Department** (August, 2022- August, 2024)  
Superior Group of Colleges, Sheikhpura.  
Provided academic leadership to the Department of Mathematics, overseeing curriculum planning, faculty supervision, academic scheduling, assessment processes and quality assurance initiatives.

## Technical Reports Supervision

The following five technical reports are supervised:

1. **Miss Manazza Shahid**, The Fundamentals of Mathematical Modeling in Epidemiology and Disease Dynamics, 2025.
2. **Miss Zaib-un-Nisa**, Mathematical Model of SIR Epidemic System (COVID-19): stability and Numerical Analysis, 2025.
3. **Miss Aleena Anwar**, Understanding Measels Propagation through SIER Model, 2025.
4. **Miss Tayyaba Ramzan**, Analysis of Reproduction Number of Human Papilloma virus, 2025.
5. **Miss Ayesha Aslam**, Dynamics of a Tobacco Smoking Model, 2025.

## Publications

1. Haneen Hamam, Aziz Ullah Awan, Mohamed Medani, Roobaea Alroobaea, **S. A. H. S. Bukhari**, Dowlath Fathima, Theoretical analysis of colonic crypt and colorectal cancer model through Caputo–Fabrizio fractional derivative.  
Modern Physics Letters B, 38(36) (2024) 2450365 (20 pages). (IF=1.948) (X, Singapore)

## Conferences, Trainings, Workshops and Seminars Attended/ Organized

1. Participated in the **International Poultry Expo-2025**, gaining exposure to contemporary developments, technologies and practices in the poultry industry. (23<sup>rd</sup>-25<sup>th</sup> October, 2025)  
**Expo Center, Lahore.**
2. Demonstrated outstanding participation in a two-day **workshop** on “**Bio-statistical Data Handling and Analysis**,” focusing on statistical techniques and computational methods for biological research. (6<sup>th</sup>-7<sup>th</sup> August, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
3. Participated in the Student Guidance **Seminar** entitled “**Unlocking Global Opportunities: Scholarships and Study Abroad Pathway**,” aimed at exploring international academic and scholarship opportunities. (16<sup>th</sup> May, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
4. Participated in a one-day **seminar** entitled “**Global Strategies for Poultry Disease Control in the Face of Climate Change**,” focusing on contemporary challenges and mitigation approaches in the poultry sector. (24<sup>th</sup> April, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
5. Participated in the **8th UMT International Conference on Pure and Applied Mathematics**, a three-day academic event held at the University of Management and Technology (UMT), Lahore, focused on recent advancements in mathematical research and applications. (14<sup>th</sup>-16<sup>th</sup> April, 2025)  
**University of Management and Technology, Lahore.**
6. Organized an **outreach program** titled “**Empowering Digital Excellence Web Rendering Modes**,” aimed at enhancing students’ digital literacy, technical proficiency, and awareness of modern web technologies. (7<sup>th</sup> November, 2024)  
**E-Commerce By Experts Canal Road, Toba Tek Singh.**
7. Successfully completed **Post-Induction Training and Professional Development**, strengthening competencies in outcome-based education, curriculum design, assessment strategies, academic leadership, and quality assurance in higher education. (10<sup>th</sup> October, 2024- 1<sup>st</sup> November, 2024)  
**University of Agriculture, Faisalabad.**
8. Attended a one-day **workshop** on “**Logical Reasoning and Teaching Methodologies for Entry Test Classes (ECAT, MDCAT)**” organized by KIPS Preparations, focusing on effective pedagogical strategies for competitive exam instruction. (2023)  
**Kips Preparations, Lahore.**
9. Attended a one-day **Annual Workshop on Teaching Methodologies** at the Superior University, Faisalabad Campus, focusing on innovative instructional practices and pedagogical development. (2023)  
**Superior Group of Colleges, Lahore.**
10. Attended a one-day **workshop** on the **Superior Executive Development Program (SEDP)** at the Superior College, Faisalabad Campus, aimed at enhancing leadership, management and professional growth competencies. (2022)  
**Superior Group of Colleges, Lahore.**
11. Attended a one-day **workshop** on “**Assessment and Examination in the Semester System: Lesson Planning and Evaluation Techniques**,” by the experts of University of Education, Lahore, focusing on outcome-based education, assessment design, and instructional planning. (2020)  
**Punjab Group of Colleges, Shakargarh.**

## Co-Curricular, Cultural and Social Events Attended/ Organized

1. Participated in a **musical (singing) competition**, demonstrating artistic expression and active engagement in co-curricular cultural activities. (December, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
2. Participated in a commemorative event held in **memory of the martyrs of Army Public School**, honoring their sacrifice and promoting reflection, unity and national resilience.  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.** (16<sup>th</sup> December, 2025)
3. Served as a **committee member** for the **Tug of War Competition** during the **Annual Sports Gala-2025**, contributing to event coordination and management. (2<sup>nd</sup>-5<sup>th</sup> December, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
4. Participated in the celebration of **“Iqbal Day,”** commemorating the vision, philosophy and poetry of **Allama Muhammad Iqbal**, and promoting intellectual and cultural awareness among students. (9<sup>th</sup> November, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
5. Served as a **member** of the **Public Relations and Publication Committee** during the **World Egg Day-2025** celebrations, contributing to event coordination, communication and promotional activities. (10<sup>th</sup> October, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
6. Demonstrated active participation and commitment in the **“Suthra Punjab Awareness Campaign,”** contributing to initiatives promoting environmental cleanliness and community awareness. (30<sup>th</sup> September, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
7. Made a heartfelt contribution as a **judge** in the **Seerat-un-Nabi (PBUH) Speech Competition** during the **12th Rabi-ul-Awal event**, promoting spiritual reflection and eloquence among students. (6<sup>th</sup> September, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
8. Contributed through valuable participation in the **Independence Day Celebrations “Marka-e-Haq,”** promoting national spirit and student engagement in institutional events. (14<sup>th</sup> August, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
9. Organized a **Photographic Competition** on the themes of Nature’s Beauty, Patriotism, Climate change, Poverty Alleviation and Campus Glimpses to promote creativity and social awareness among students. (16<sup>th</sup> May, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
10. Participated in the cultural event **“Wadiyan Mela,”** celebrating heritage, community engagement and student participation in co-curricular activities. (28<sup>th</sup> April, 2025)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
11. Served as a **committee member** for the **Football Competition** during the **Annual Sports Gala-2024**, contributing to event coordination and management. (12<sup>th</sup>-14<sup>th</sup> November, 2024)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
12. Organized the **Food Competition** during the **World Egg Day-2024** celebrations, contributing to event planning, coordination and student engagement. (11<sup>th</sup> October, 2024)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**
13. Served as a **committee member** for the **Naat-e-Rasool Kareem (PBUH) Competition** during the celebrations of **Ashra-e-Rehmatul-lil-Alameen**, contributing to the organization and evaluation of the event. (13<sup>th</sup> September, 2024)  
**University of Agriculture Faisalabad, Constituent College Toba Tek Singh.**

## Teaching Courses

I have taught the following courses:

- 1) Quantitative Reasoning-I
- 2) Quantitative Reasoning-II
- 3) Elementary Mathematics
- 4) Elements of Set Theory and Mathematical Logic
- 5) Logics
- 6) Introduction to Calculus
- 7) Calculus-I
- 8) Calculus-II
- 9) Calculus-III
- 10) Discrete Mathematics
- 11) Metric Spaces
- 12) Group Theory
- 13) Linear Algebra
- 14) Real Analysis-I
- 15) Real Analysis-II (Advanced Real Analysis)
- 16) Complex Analysis-I
- 17) Introduction to Probability
- 18) Probability and Distribution Theory-I
- 19) Measure Theory and Lebesgue Integration
- 20) Ordinary Differential Equation (ODEs)
- 21) Partial Differential Equations (PDEs)
- 22) Integral Equations
- 23) Mathematical Physics
- 24) Mathematical Methods
- 25) Mathematical Methods in Physics (MMP)

## References

- **Prof. Dr. Aziz Ullah Awan**  
[aziz.math@pu.edu.pk](mailto:aziz.math@pu.edu.pk)  
0331-4349477  
Institute of Mathematics  
University of the Punjab Lahore, Pakistan.
- **Dr. Saima Arshed**  
Assistant Professor  
[saima.math@pu.edu.pk](mailto:saima.math@pu.edu.pk)  
0333-4388729  
Institute of Mathematics  
University of the Punjab Lahore, Pakistan.