



# Muhammad Farooq

**Nationality:** Pakistani **Date of birth:** 05/03/1997 **Gender:** Male

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## ABOUT MYSELF

I am a Mathematics teacher with experience teaching at the university level. I hold an MS in Mathematics, with a research focus on Cryptography. I am passionate about helping students understand complex mathematical concepts and encouraging their academic growth.

## WORK EXPERIENCE

### LECTURER MATHEMATICS (VISITING)

**Baba Guru Nanak University, Nankana Sahib** [ 11/2022 – Current ]

Country: Pakistan

- Delivering Lectures.
- Teaching courses of Mathematics: Calculus & Analytical Geometry, Set Theory, Programming Language for Mathematicians, Probability & Statistics, Abstract Algebra, Elementary Linear Algebra and Ordinary Differentials Equations
- Preparing and checking of quizzes and assignments. Assessments records.

### LECTURER MATHEMATICS (VISITING)

**University of Education, Lahore Pakistan** [ 08/2023 – Current ]

Delivering Lectures.

Teaching courses; Elementary Linear Algebra, Discrete Mathematics, Multivariable Calculus, Quantitative Reasoning and Exploring Quantitative Skills.

Preparing and checking of quizzes and assignments.

Evaluation and Assessments records.

### Educational scholar

**University of Education, Lahore Pakistan.** [ 29/06/2021 – 23/07/2022 ]

Address: Division of Science and Technology, Lahore (Pakistan) | Name of unit/department: Mathematics - Business/sector: Education

### Cryptography:

Image Encryption and Watermarking using S-Boxes over Odd Prime Finite Chain Rings.

Algebraic Structures of Galois Ring.

Steganography and Cryptography.

### Mathematics and Physics teacher

**The Punjab Academy** [ 26/01/2021 – 27/05/2021 ]

City: Lahore | Country: Pakistan

Delivering lectures, Evaluation and assessments.

### Mathematics Instructor

**Google meet and Zoom** [ 2018 – 2021 ]

City: Lahore | Country: Pakistan

Delivering Lectures to Higher Secondary Classes via Zoom and Google meet.

Preparing and checking of quizzes and assignments.  
Evaluation and Assessments records.

### **Teaching Practice and Teacher Assistant**

**Hashmi Model High School** [ 22/07/2018 – 29/08/2018 ]

City: Lahore | Country: Pakistan

Three weeks Teaching Practice assigned by University of Education, Township Lahore Pakistan.  
Evaluated different teaching methods by curriculum development and lesson planning.  
Maintained student learning objectives through personalized and small group assistance.

### **Teacher and Instructor**

**Little Heaven English Medium High School** [ 15/08/2015 – 20/09/2016 ]

City: Lahore | Country: Pakistan

Delivering Lectures to Secondary Classes.  
Assessed students assignments to check quality and completeness and assign grades.

## **EDUCATION AND TRAINING**

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### **MS Mathematics (18 years Education)**

**University of Education, Lahore Pakistan.** [ 2020 – 2022 ]

City: Lahore | Country: Pakistan | Final grade: CGPA: 3.71/4.00 | Thesis: Image Encryption and Water Marking Using S-Box Over Odd Prime Finite Chain Ring.

#### **Short Description:**

The focus of this master thesis was the construction of cyclic group for encryption and decryption purposes. Technique of steganography has been implemented on encrypted cyclic groups using image as a source.

**Supervisor:** Dr. Muhammad Athar

### **BS (Hons) Mathematics (16 years Education)**

**University of Education, Lahore Pakistan.** [ 2016 – 2020 ]

City: Lahore | Country: Pakistan | Final grade: CGPA: 3.68/4.00

Courses:

Calculus & Analytical Geometry, Discrete Mathematics, Set Theory, Number Theory, Group Theory, Ring Theory, Field extension, Functional Analysis, Complex Analysis, Real Analysis, Statistics and Differential Geometry etc.

### **B.Ed Secondary (1.5 years)**

**Virtual University of Pakistan** [ 2022 – 2023 ]

Country: Pakistan | Final grade: CGPA: 3.30/4.00

### **Higher Education (Pre-Engineering)**

**Govt. Degree College for Boys Township Lahore**

City: Lahore | Country: Pakistan | Final grade: Percentage: 83.8%

## **HONOURS AND AWARDS**

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### **Achievements**

1. Website development certificate with 2nd Position at The Brains College Walton road Lahore.
2. Appreciation certificate for getting 1st position at The Brains College during Diploma in Web designing.
3. Successfully completed my MS degree thesis and declared as best research thesis.
4. In BS(Mathematics) degree I got merit based scholarship.
5. Got Laptop by merit based Prime-minister laptop scheme.

6. E-Certificate of participation in the Expert Lecture on "National Mathematics Day" organized by Anand International College of Engineering, Jaipur India.
7. E-Certificate of participation in CIMPA research school on Algebraic and Combinatorial Methods in Geometry organized by LUMS, Lahore Pakistan.
8. Certificate and Badge of award by "American English Live 17.2 - Using Visible Thinking Routines in the Language Classroom".
9. E-Certificate awarded by RELO (Regional English Language Office) Pakistan for attending of Open Virtual Conference 2023, "Empowering ELTs with Professional Development through OPEN MOOCs".
10. Certificate awarded by (CMAP) University of Management and Technology, Lahore for joining workshop of Computational Mathematics with Python.
11. Judged Naat competition at Baba Guru Nanak University, Nankana Sahib, and received Vice Chancellor's Shield of appreciation.

## ORGANISATIONAL SKILLS

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### ORGANIZATIONS AND PRESENTATIONS

- Organized seminars, functions at University as student community's member.
- Presented different group projects and thesis's final presentation at University of Education, Township Lahore Pakistan.
- Presented and submitted Portfolio of Foundations of Education at University of Education, Lahore Pakistan.
- Presented final project of Teaching Practice and Lesson Planning at University.
- Conducted training session on "How to teach Mathematics at School Level" at DC Office, Nankana Sahib.
- Organized-A one-day national symposium "Mathematics is a Language of the Universe: Exploring its Power and Beauty" at Baba Guru Nanak University, Nankana Sahib.

## REFERENCES

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### **Dr. Muhammad Azam**

Professor

University of Education Township Campus, Lahore Pakistan.

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### **Dr. Muhammad Umer Saleem**

Professor

University of Education Township Campus, Lahore Pakistan.

Email: umerlinks@ue.edu.pk

### **Dr. Muhammad Athar**

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