

# Arfa Anwer Arain

## Mathematician & Educationalist

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### Career Objective

**Passionate to work in the education sector for the purpose of applying pedagogy that would cater to all types of learners by providing them with individualized and customized ways to become lifelong learners and critical thinkers.**

### Education

Master of Science 2018 - 2020

National University of Sciences and Technology, Islamabad.

Masters of Sciences in Innovative Technology in Learning (MSITL)

Bachelor of Science 2014 - 2018

National University of Sciences and Technology, Islamabad

Bachelor of Science in Mathematics.

Faculty of Science 2012 - 2014

College: Dr. A.Q Khan College of Sciences and Technology, Bahria Town, Islamabad.

Matriculation 2010 - 2012

School: Dr. A.Q Khan College of sciences and technology, Bahria Town, Islamabad.

### Work experience

Mathematics and computers Teacher 2019 - 2020

Lahore School System (LSS), Islamabad

Primary classes Mathematics and computers teacher. Taught by using student-centered and collaborative learning teaching methodology.

### INTERNSHIPS

Certified 2019 - 2019

NUST Creative Learning School, Islamabad

Used Universal Design Learning approach for teaching Science and Mathematics to children.

Certified 2019 - 2019

Al-Firdous welfare association school, Bara kau.

Used critical pedagogy approach to teach Science to elementary class students.

Certified 2017 - 2017

Development in literacy (DIL), ISLAMABAD (math and science trainer)

teacher of mathematics in a government school and Instructional designer of Math and Science curriculum for the government schools under DIL.

Deputy Head HR 2016 - 2017

Chadar, a non-profit organization

### Technical skills

- Microsoft Office certified.
- C Language Basics.
- E Views 10 Stata 1

### Interests

- to work in an environment with social interaction
- STEM education implementation in classrooms.
- Working for the education sector
- Instructional design
- Pedagogy
- Designing a learning interface

### Projects

- Learning outcomes by using inclusive Universal design of Learning framework infused project based learning (PBL) Approach.
- Critical pedagogy approach on grade race conducted on elementary students.
- Education in Pakistan: character building or destroying? (research conducted).
- Teaching science by presenting content as hypothesis, no facts.
- Teaching mathematics using student-centered approach
- A digital learning platform for mathematics

### Volunteering

- **Team Head** in Clean sweep NUST drive conducted by the students to provoke the sense of a healthy Environment.
- **Chadar, NUST** (A student-run non-profit that provides presentable clothing and education to underprivileged for free)

### Online Courses

- Grammar and Punctuation

By University of California, Irvine

- Speak English Professionally: In Person, Online & On the Phone

By Georgia Institute of Technology

- learning how to learn: powerful mental tools to help you master tough subjects,

leading a team of HR in Chadar that organizes street stores, street-schools, and other fundraising events.

*By McMaster University & University of California.*

## THESIS

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### **Implementation of Universal Design of Learning (UDL) in a low-tech mathematics classroom and its outcomes.**

A new educational framework named Universal Design of Learning (UDL) includes every student in the classroom to learn irrespective of their background, disabilities, or learning styles, unlike traditional classrooms. The principles of the UDL framework include technology and pedagogy in a lesson plan that involves all the students in the classroom. In developing countries with low GDP being assigned to the education sector, technology integration is not possible in the short-run. The study examined the results of UDL implementation in a low-tech primary Math classroom. The results deduced that UDL could improve the conceptual understanding and reduce the math anxiety of students.

## Hobbies

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- Art and Crafts
- Book reading
- Graphic Designing