PERSONAL INFORMATION

Nazish

Village Rashakai, P/o Trakai, Muhallah Batkeil, Tehsil Razzar, Distric Swabi, KPK , Pakistan

+92-3318158536

Knazish913@gmail.com

Gender Female | Date of birth 1/03/1926 | Nationality Pakistan

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RESEARCH AREAS

- Medical Physics
- Material Science

RESEARCH EXPERIENCE

As Undergraduate Student (September 2013– January 2016)

University of Peshawar (Pakistan)

RESEARCH PROJECT

Fabrication and Characterization of Thermoluminescent Dosimeters (TLD-100) and Comparison With the Commercially Available Standard TLD-100 under the supervision of **Dr. Shahid Ali,** Assistant Professor, Department of Physics, University of Peshawar.

As MS Student (October 2016 – March 2020)

University of Peshawar (Pakistan)

RESEARCH PROJECT

Synthesis and Luminescence properties of Sm^{3+}-Doped Gd_2O_3 Nanophosphors for Display Applications under the supervision of **Dr. Shahid Ali,** Assistant Professor, Department of Physics, University of Peshawar

EQUIPMENT EXPERIENCE

Teaching the undergraduate students

- Ballistic pendulum for demonstrating momentum and energy conservation
- Compound Pendulum for acceleration due to gravity
- Capillary Tube method for determining the surface tension of water
- Tap timer and projectile launcher for illustrating kinematics and dynamics
- Force table for studying translational equilibrium
- Potentiometer as voltage measuring device, internal resistance of cell
- Variable g pendulum for exploring gravitational acceleration
- Electricity and magnetism equipment, such as:
  - Breadboard for circuit design and prototyping
  - Cathode ray oscilloscope for visualizing waveforms
  - Multi-meter for measuring electrical quantities
  - Colour coding of resistors for circuit analysis
  - Helmholtz solenoid for demonstrating magnetic field principles and many more.

Techniques Used for my Research Work

- X-ray Diffraction Technique
- FTIR (Fourier Transform Infrared Spectroscopy)
- UV-Vis (Ultraviolet–Visible) Spectroscopy
- Photoluminescence Spectroscopy

EDUCATION

2016– 2020	Master of Philosophy (Physics) Department of Physics University of Peshawar Specialization in Material Science	GPA 3.5/4.00
2013-2016	Master of Science (Physics) Department of Physics University of Peshawar Specialization in Medical Physics	Marks: 660/1100
2011-2013	Bachelor of Science (Physics, Mathematics, Computer Science) Abdul Wali khan University Mardan	Marks: 429/550
2009-2011	F.Sc (Physics, Mathematics, Computer Science) Govt. Girls Degree Collage Kernal Sher Kali Swabi	Marks:686/1100
2007-2009	SSC (Physics, biology, Chemistry) Liaqat Trust Girls high School and Collage Tarakai	Marks: 732/1050

TEACHING & OTHER EXPERIENCE	
FALL 2025- CONTINUE	Visiting Lecturer (Women University Swabi)
SPRING 2022- CONTINUE	Visiting Lecturer (University of Swabi)
Spring 2022– FALL 2023	Visiting Lecturer (University of Engineering and Technology Peshawar)
FALL 2019-FALL 2022	Visiting Lecturer (Shaheed Benazir Bhutto Women University Peshawar)
SEPTEMBER 2017-DECEMBER 2018	Lecturer (Agriculture Public School and Collage for Girls Peshawar)
JANUARY 2016-SEPTEMBER 2016	Lecturer (Liaqat Trust Girls high School and College for Girls)
COMPUTER SKILLS	LATEX, Origin, Endnote, Microsoft office, C++
Languages	Pashto ,Urdu, English