**Curriculum Vitae - Nazia Erum**

**Personal Data**

Nationality Pakistani

Religion Islam

Phone 03314100684

Email nazia.erum@umt.edu.pk

erum.n@hotmail.com

**Career Objective**

As a Physicist position *t*o join a dynamic and progressive university that calls for sharp functioning of the knowledge and skill acquired, offers opportunities for high quality professional experience, career progression and enhancement of research skills.

**Teaching Experience**

Sep 15 – Present **Lecturer,** School of Science,

 University of Management & Technology, Lahore.

Feb14 – Sep 15 **Visiting Lecturer**, Department of Physics,

 University of the Punjab, Lahore.

Part time lecturer, Quantum Mechanics

M.Sc., Session 2013 – 2015

Physics Department, University of the Punjab, Lahore, Pakistan.

Part time Lecturer; Calculus II

B.Sc. Hons., Sem. II, 2015-2018

Physics Department, University of the Punjab, Lahore, Pakistan.

Part time Lecturer; Quantum Mechanics

B.Sc. Hons., Sem. VI, 2013-2016

Physics Department, University of the Punjab, Lahore, Pakistan.

Part time Lecturer; Pure Mathematics

B.Sc. Hons., Sem. IV, 2014-2017

Physics Department, University of the Punjab, Lahore, Pakistan.

Part time Lecturer; Quantum Mechanics

B.Sc. Hons., Sem. VI, 2012-2015

Physics Department, University of the Punjab, Lahore, Pakistan.

**Academic Background**

Sep 13 – date **Ph.D.** in Physics, Department of Physics, University of the Punjab Lahore, Pakistan.

Course work: Completed **(CGPA: 3.88)**;

Comprehensive: Cleared **(CGPA: 4.0)**;

Synopsis: Approved;

Thesis: On-going

Sep 08 – 10 **M.Phil.** (Course and research work) in Microelectronics Engineering and semiconductor Physics, University of the Punjab Lahore, Pakistan.

 **(CGPA: 3.6)**

Sep 04 – 08 **B.Sc. (hons)** in Physics, Kinnaird College for Women, Lahore. (1st div.)

Jun 02 – 04 **F.Sc** in physics, Govt. College for women, Gulberg, Lahore. (1st div.)

Mar 00 – 02 **Matric** in science, Pak Angels Girls high School Lahore. (Grade: A+)

**Distinctions**

Dec – 13 Ph.D. Scholarship

 Merit Scholarship by DPCC, University of the Punjab, Lahore.

Sep – 09 M.Phil. Scholarship

 Merit scholarship by MERC, University of the Punjab, Lahore.

**Research Projects**

May 09 – 10 Modelling Of Experimental Data of PN-Heterojunction For opto-electronic Applications.

Sep 07 – 08 Automatic Intelligent Room Light Intensity Controller.

**Research Interests**

Quantum mechanical investigations Computer simulation and Modelling

Precision Engineering First Principle Investigations

Nanotechnology Vibration Analysis and Control

Semiconductor Materials Science Bio-Physics

**Teaching Interests**

Quantum Mechanics Solid State Physics

Thermodynamics Electronics

Mathematics & Calculus Semiconductor Device Physics

Nuclear Physics Applied Mechanics/Physics

**Computer Skills**

Operating Systems: UNIX, Windows 08/07/95/98/ XP, MSDOS

Computer Languages: C/C++, Visual Basic, Visual C++, FORTRAN 90

Scientific Applications: MATLAB/Simulink

Technical Drawing: AutoCAD, Photoshop, Lab View

Office Applications: Microsoft PowerPoint, Access, Excel, Word

Internet Development: HTML, Java

Database: Microsoft Access.

**Professional Memberships**

Life Member, “Pakistan Institute of Physics (PIP)”

**Trainings Attended**

Training on the installation and use of Fourier transform infrared spectroscopy (FTIR)

Training on the installation and use of Powder X-Ray Diffractometer (XRD)

Training on the use of Scanning Electron Microscopy (SEM)

Training on the installation and use of Vibrating Sample Magnetometer (VSM)

## Hobbies

* Reading books
* Internet Surfing
* Tenus

#### Social Work in Local Community

**Reference**

**Prof. Dr. MUHAMMAD AZHAR IQBAL**

Department of Physics

University of the Punjab, Lahore

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