## DR. ZAHEERUDEEN SAHEB. P

**PROFESSOR OF PHYSICS** 

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### **EXPERIENCE**

38 Years of teaching with 5 years of Research experience during Ph.D studies in collaboration with Indian Institute of Science, Bangalore.

## **EDUCATIONAL QUALIFICATION**

Research work	Material science (Chalcogenide glasses preparation and Characterization both bulk and thin films )
Ph.D	2004, Department of Physics, Bangalore University, Bangalore
PG	MSc Physics, 1986. Bangalore University
UG	BSc (PCM), Bangalore University

## > RESEARCH PUBLICATIONS

1. Solid State Communications, 129 (2004) 765-768. "Extended rigidity percolation and chemical thresholds in Ge-Te-Pb glasses as revealed by MDSC Zaheerudeen et al.,

2. Journal of Optoelectronics and Advanced Materials, 5 (2003) 1215-1221.,

"Transient and steady state photoconductivity studies on bulk glasses and amorphous films of Ge-Te-Pb- Composition and spectral dependence."

Zaheerudeen et al.,

3. Applied Physics A, 77, (2003) 665-65 "Electrical switching studies of lead doped germanium telluride glasses." P.Z.Saheb et al.,

### ACHIEVEMENTS/SKILL HIGHLIGHTS

Awarded 'O'(Outstanding) grade in a project at University of Pune.

1. Designed a Pre-Amplifier for Thermo-power measuring device using Intersil compensating IC as the samples were high impedance

2. Design cold finger for measuring the variation of physical properties as a function of temperature using liquid nitrogen

3. Optimized the vacuum coating unit for the preparation of thin films by thermal evaporation method 4. Installed the insitu thickness measuring device i.e., thickness monitor for thickness of thin films.

#### **OBJECTIVE**

Inculcate in students to develop Passion in Physics through quality teaching through the applications of Physics in day to day life

#### OUTCOME

Produce a Future ready citizens of scientific temperament with A knowledge of modern technology and its applications

#### **PUBLICATIONS:**

Sai Taranga 2K24 – On 30 MAY 2024 in a National Level Conference and Published in Book Chapter in the Book ENGINEERING THE FUTURE – THE VITAL ROLE OF SCIENCE

PAPER PRESENTED IN INTERNATIONAL CONFERENCE/ WORKSHOP:

PAPER ACCEPTED IN INTERNATIONAL CONFERENCE/ WORKSHOP: 4. Engineering The Future – The Vital Role Of Science, 2024, STP05, 23, (ISBN: 978-93-340-5353-1)

"Design and Development Of a Multipurpose Low Cost Mobile Robot". P. Zaheerudeen Saheb P, Aatika Kulsum, Tasmiya Fathima.K, GITW, Bengaluru -560 029

5. Engineering The Future – The Vital Role Of Science, 2024, STP05, 23, (ISBN: 978-93-340-5353-1)

"Radio Astronomy". Wajeeha Khan, P. Zaheerudeen Saheb, Afiya Zuha, Bushra Fathima, GITW, Bengaluru -560 029

P. Zaheerudeen Saheb, S. Asokan, K. Appaji Gowda, "Amorphous chalcogenide optical sensors by photodiffusion" at Indo-Japanese workshop on Microsystems Technology, held at Delhi, under Indo-Japan co-operative science program. November 23-25, 2000.

1. P. Zaheerudeen Saheb, S. Asokan, K. Appaji Gowda, "Photoconductivitystudies on lead doped telluride glasses" at International Conference on Materials for Advanced Technologies (ICMAT 2001) at Singapore.

2. Zaheerudeen Saheb. P, Sharmila, B. H, Asokan, S, K. Appaji Gowda, "Extended rigidity percolation and chemical thresholds in Ge-Te-Pb glasses as revealed by MDSC". At Romanian Conference on Advanced Materials, ROCAM 2003: fourth international edition, Constanta, Romania, September 15 - 18, 2003.