Faculty Profile

Name: **Dr. ELIZABETH ZACHARIAS**

Designation: **Professor**

Teaching areas: Mechanics & Optics, EM Theory & Material Science

Research interests: Experimental Solid State Physics

Education:

- PhD: Experimental Solid State Physics University of Hyderabad, 1995
- M.Phil: Experimental Solid State Physics University of Hyderabad, 1989
- M.Sc.Ed: Regional College of Education, Mysore University, 1987
- B.Sc. Ed: Regional College of Education, Mysore University, 1985

Research Publications:

1. Elizabeth Zacharias and R.Singh "Crystallization and resistivity studies on Bi4Sr3Ca3CuyOx Glasses" Physica C Vol. 247, pp. 221-230,1995.

2. Elizabeth Zacharias and R.Singh "Structural and Superconducting Properties of Bi4Sr3Ca3CuyOz and Bi4Sr3Ca3Cu4-x Mx Oz (M= Fe, Cr and Mn) Glass Ceramics"International Journal of Modern Physics B, Vol. 9 No.4 & 5, pp. 549-561,1995
3. U.Ravikiran, Elizabeth Zacharias, G.Rajashekhar and P.Sarah "Impedance spectroscopy studies on Samarium and Sodium substituted Strontium Bismuth Titanate" Ceramics International , Vol. 45, No. 12, 15 pp. 15188-15198, (2019)

4. U. Ravikiran, P. Sarah, M. Buchi Suresh, and Elizabeth Zacharias "Effect of Sm and Na substitution on dielectric properties of SrBi4Ti4O15" Ferroelectrics, Vol. 537, pp. 237–245, (2019)
5. RavikiranU, SarahP, A.R.James, Elizabeth Zacharias "Investigation of the role of Sm, Na in ferroelectric, piezoelectric and conduction behaviour of Strontium Bismuth Titanate ceramics" Solid State Communication, 332 (2021) 114309

6. RavikiranU, Elizabeth Zacharias, Gagan Anand, SarahP, "Modelling of dielectric studies on rare-earth substituted Strontium Bismuth Titanate using modified Lorentz equation" Integrated Ferroelectrics Vol 585 (2021), Vol 221, 245-253

Research Guidance: Guided one research scholar (Ravikiran Uppala) for Ph.D. degree on the topic "Synthesis and Dielectric Properties of Rare-earth (Sm, Y) substituted eco-friendly SBTi Ceramics". (Date of award: 26th April, 2023).