



# Dr. RANJANA

Assistant Professor

## EXPERIENCE (TEACHING):

- Assistant Professor at RNSIT (January 2026 - till date).
- Raichur University and LVD College, Raichur, Karnataka  
2023
- Mangalore University, Mangalore, Karnataka  
2018 – 2021
- Field Marshal K. M. Cariappa College, Karnataka  
2016 – 2017

## QUALIFICATIONS:

- Doctor of Philosophy (Ph.D.) in Physics  
Mangalore University — 2022  
*Thesis Title: “Photo-Driven Synthesis of Gold Nanoparticles Using Silk Fibroin: Characterization and Colorimetric Sensor Applications”*
- Master of Science (M.Sc.) in Physics
- Bachelor of Science (B.Sc.) (*Physics, Chemistry, Mathematics*)  
Alva’s Education Foundation,  
Mangalore University

## PROFESSIONAL EXPERIENCE:

- Facility Technologist (CeNSE), Indian Institute of Science (IISc), Bengaluru
- Postdoctoral Fellow, Mahatma Gandhi University, Kottayam, Kerala

## SPECIALIZATION (ACADEMICS):

- Physics - Electronics

## RESEARCH EXPERTISE

- Research experience in nanoscience, biomaterials, triboelectric nanogenerators, food packaging, cancer therapy, EMI shielding, and sensor technologies

## PUBLICATIONS:

1. Google Scholar: <https://scholar.google.com/citations?user=4OZpHZMAAAAJ&hl=en>
2. Orcid ID: <http://orcid.org/0000-0002-5692-3416>

## KEY JOURNALS PUBLISHED

1. Journal of Materials Science: Materials in Electronics BioNanoScience
2. Journal of Dispersion Science and Technology
3. ACS Omega
4. Results in Chemistry