Name : **Dr. (Smt.) Reshma A. Nesargi**

Qualification : M.Sc., M.Phil., Ph.D.

Present Position : Assistant Professor,
Department of Physics,
Karnatak Science College,
Dharwad.

Teaching Experience :

- Worked as Assistant Professor in Kittel Science College, Dharwad from Jan 2008 to 20-10-2011.
- Presently working as Assistant Professor in Karnatak Science College, Dharwad from 21-10-2011 till date.
- Teaching PUC, B.Sc. and M.Sc. courses.

Field of Research : Theoretical Condensed Matter Physics

Ph.D. Thesis : Some Electronic properties of SemiconductingNanostructures

Papers presented at International Conference : 04

PUBLICATIONS: International – 02

Conference - 02

University Seed grants Minor Research Project– 2020- 2021

ProjectTitle: "Magnetoconductivity due to confined acoustic phonons in free standing quantum well."

Orientation/Refresher course /FDP attended:
Orientations: 1
Refresher courses: 3
Faculty Development Program: 6
Workshops: 01
National/International Conferences: 05/04

Additional responsibilities undertaken:

- **Coordinator of AAA from 2020 - till date**
- **Chairperson of College Gymkhana Reading Room (2020- till date)**
- **Twice worked as a Coordinator at UG science central valuation centre, Karnatak University, Dharwad.**
- **Chairperson of Einstein Study circle (2012-2014)**

LIST OF PUBLICATIONS

1. Confined Acoustic Phonon Assisted Cyclotron Resonance in Free-standing semiconductor quantum well structures
   J. S. Bhat, R. A. Nesargi, and B. G. Mulimani
   Physical Review **B 73**, 235351 (2006).

2. Energy loss rate of hot electrons due to confined acoustic phonon modes in Free-standing quantum well nanostructures
   J.S. Bhat, R.A. Nesargi and B.G. Mulimani
   Journal of Applied Physics **106**, 033701 (2009)

LIST OF PAPERS PRESENTED IN CONFERENCES

1. Energy loss rate of hot electrons due to confined acoustic phonon modes in free-standing quantum well structures in quantizing magnetic field,
   J. S. Bhat, R. A. Nesargi, and B. G. Mulimani
   Proc. DAE SSPS Symposium, (Dec 2006).

2. Free carrier absorption in free standing nanostructures
   J. S. Bhat, R. A. Nesargi, and B. G. Mulimani
   Proc. International Workshop on Physics of Semiconductor Devices – Dec 2007.

3. Magnetoconductivity in freestanding quantum well structures
   R. A. Nesargi, J. S. Bhat and S. S. Kubakaddi
   Proc International Conference on “Recent Trends in Material Sciences” March 2023

4 Transverse Magnetoconductivity in freestanding quantum well structures
   R. A. Nesargi, J. S. Bhat and S. S. Kubakaddi
   Proc. National Conference on “Recent Advances in Physics and Mathematics April 2024