

CURRICULUM – VITAE

Dr. Ramesh B Kamble

Faculty of Physics,

Department of Science &
Humanities

Dean R & D, & F.Y. Coordinator

Government College of Engineering,
Jalgaon

Chairman, BoS of Applied Sciences,
Science & Technology, KBCNMU

Ph.D. Guide in Physics, KBCNMU

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AREA OF RESEARCH INTEREST:

Interested areas of research are Condensed Matter Physics, Smart Functional Materials, Nanocomposites and their physical properties like; electrical, dielectric, magnetic, ferroelectric, and multiferroic properties. Also interested to explore *Nanomaterials* and *Nanocomposites* for the applications of magnetic sensors, devices, gas sensors, super capacitors, EMI shielding, field emission, and battery applications.

EDUCATIONAL QUALIFICATIONS:

Sr. No.	Name of the Degree	Name of the University/Board	Year of Passing	Subject
1	B.Sc. Physics	Dr. Babasaheb Ambedkar Marathwada University	1995	Physics, Chemistry, Maths
2	M.Sc. Physics	Swami Ramanand Teerth Marathwada University	1997	Physics
3	M. Phil. Physics	Pune University	2008	Materials Science: Nano Ferrites and Applications
4	Ph.D.	Indian Institute of Science, Bangalore	2018	Metal oxide Nano-Composites Properties and Applications

WORK EXPERIENCE: (26.75 Yrs)

I INDUSTRIAL EXPERIENCE: (Nov.1997 to Feb.1999, Period = 1.25 Yrs.)

Work experience as a Shift Incharge/Engineer in Ameya Steel Process Pvt. Ltd., Turbhe, Navi Mumbai.

Job descriptions:

- To control various Heat Treatment processes; Heating, Tempering, Oil quenching, water cooling, air cooling and soaking, and shot blasting etc.
- Testing and handling of steel materials for hardness and quality.
- Overall plant operation, production control and supervising workers.

II TEACHING EXPERIENCE: (25.5 Years)

Sr. No.	Name of the Institute	Post held	Duration	Period
1	Siddharth College of Science, Mumbai.	Lecturer (Visiting)	2 nd July to 14 th Oct.1999	3.5 Months
2	Govt. Engineering College, Karad	Lecturer	15 th Oct.1999 to 31 st May 2000	7.5 Months
3	Anandibai Pradhan Science College, Nagothane	Lecturer	19 th June 2000 to 25 th March 2002	2 Yrs
4	College of Engineering, Malegaon (BK) Baramati	Lecturer	26 th March 2002 to 9 th Aug 2002	4.5 Months
5	Sinhagad College of Engineering, Pune	Lecturer	13 th Aug 2002 to 2 nd Nov 2003	1.25 Yrs
6	College of Engineering, Pune	Assistant Professor	3 rd Nov 2003 to 10 Aug 2021	18 Yrs
7	Government College of Engineering, Jalgaon	Assistant Professor	11 th Aug 2021 to till date	3 Yrs

PUBLICATIONS:

A. Books/book chapters published by International publishers

1. A book named "*Physics of Nano Crystalline Nickel-Cobalt Ferrites*" Lambert Academic Publication, Germany, ISBN 9783844384574 (2011).
2. A book chapter in "*Recent Trends in Materials Science and Applications*" Vol 189 page 493-501 (2017), Springer Publication.

B. Books published by local publisher within University region

3. A Text Book of *Applied Physics I* for F. Y. B. Tech. Pune University.
4. A Text Book of *Applied Physics II* for F. Y. B. Tech. Pune University.
5. Practical handbooks of *Physics Practical Book* for F. Y. B. Tech. Pune University

C. Research Papers Published in International Journals

1. Nanocrystalline nickel ferrite thick film as an efficient gas sensor at room temperature, **R B Kamble, VL Mathe, Sensors and Actuators B: Chemical 131** (1), 205-209 (2008)
2. Anomalies in electrical and dielectric properties of nanocrystalline Ni-Co spinel ferrite, *VL Mathe, R B Kamble, Materials Research Bulletin 43* (8-9), 2160-2165 (2008)
3. Electrical and dielectric properties of nanocrystalline Ni-Co spinel ferrites, *V L Mathe, R B Kamble, Materials Research Bulletin 48* (4) 1415-1419 (2013)

4. Synthesis, Growth, Structural, Spectroscopic, Thermal and optical properties of NLO single crystal: L-threonine oxalate, *Nana Shejwal, Mohd Anis, Ramesh B. Kamble, Mahendra Shirsat, Proceeding of International Conference on Crystal Growth and Biomolecular....* (2014)
5. Domain size correlated magnetic properties and electrical impedance of size dependent nickel ferrite nanoparticles, *Ramesh B. Kamble, V Varade, K P Ramesh, V Prasad, AIP Advances* 5 (1) 017119 (2015)
6. Field emission properties and strong localization effect in conduction mechanism of nanostructured perovskite LaNiO₃, *R B Kamble, N Tanty, A Patra, V Prasad, Applied Physics Letters* 109 (8), 083102 (2016)
7. Tuning spin one channel to exotic orbital two-channel Kondo effect in ferrimagnetic composites of LaNiO₃ and CoFe₂O₄, A Patra, KP Maity, *Ramesh B Kamble, V Prasad, Journal of Physics: Condensed matter* 30 2018/4/13 (2018)
8. Nickel ferrite/polypyrrole core-shell composite as an efficient electrode material for high- performance supercapacitor, *S S Scindia, Ramesh B Kamble, J A Kher, AIP Advances* 9 (5) 055218 (2019)
9. Organic Surfactant Assisted Polypyrrole Materials as Effective Chemiresistive Gas Sensors for VOCs and Toxic Gas Detection, *S S Scindia, Ramesh B Kamble, J A Kher, IEEE Sensors Journal* 20 (23), 14072-14080 (2020)
10. Tuning of electrical and magnetic properties in nanocomposites of conductive LaNiO₃ and transition metal oxides, *Ramesh B Kamble Indian Institute of Science, Bengaluru*
11. YSZ/Polypyrrole hybrid nanostructure composite electrode for electrochemical double layer capacitor, *S S Scindia, Ramesh B Kamble, R R Purandare, Y B Sonawane, arXiv preprint arXiv:2102.07145*

EXPERT LECTURES DELIVERED (तज्ञ व्याख्यान)

1. A speech delivered on the topic “विद्यार्थी आणि वैज्ञानिक दृष्टीकोन” in 14/04/2009 for the students of “स्वरूपवर्धिनी”, विद्यार्थी सेवाभावी संस्था, पुणे.
2. A speech delivered on the topic “*Superstitions and Scientific Thinking*” for the UG students of N.S.S. camp of College of Engineering at Mandede, Pune in Dec 2010.
3. A speech delivered on the topic Gram “*Swachhata Abhiyan*” (ग्राम स्वच्छता अभियान) for the UG students of N.S.S. camp of College of Engineering at Khalad, Pune in Dec 2014.
4. An expert lecture delivered on the topic “*Nanotechnology*” in Feb 2020 for the Engineering students of All India Shri Shivaji Memorial College of Engineering, Pune
5. An expert lecture delivered on the topic “*Functional Nanomaterials and Advancement of Technology*” on 3rd Jan 2024 for the students of K J College of Engineering and Management Research, Bopdev Ghat, Kodhawa-Saswad Road, Pune

Workshops/Refresher courses organized/contributed:

1. Contributed in few workshops and Refreshers courses for students and faculty of COEP Technological University, Pune
2. Organized Induction program for FYBTech students for consecutive three academics years from 2021-22 to 2023-24.

Workshops/Refresher courses/Conferences attended:

Attended several workshops, refresher courses, seminars, symposiums, National International conferences, and research meets.

Positions/Portfolios holding:

- 1) Worked as HoD, Physics Department, COEP Technological University, Pune
- 2) Chairman, BoS Department of Physics, COEP Technological University, Pune
- 3) Members of Academic Council, COEP Technological University, Pune
- 4) Co-ordinator, IQAC, Physics Department, COEP Technological University, Pune
- 5) Working as Dean R&D and also Coordinator of FYBTech at Government College of Engineering, Jalgaon.
- 6) BoS Chairman, (working for implementing NEP2020) Applied Science and Technology, Kawaitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- 7) Member, Academic Council, Kawaitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- 8) Research guide in Physics approved by Kawaitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.



Dr. RAMESH B KAMBLE

Faculty of Physics, GCOE Jalgaon

Ph.D. (Indian Institute of Science,
Bangalore)