


## Faculty Profile

<b>Name of Faculty:</b> <i>Dr. Ravi Jijappa Kamble</i>	
<b>Designation:</b> <i>Assistant Professor</i>	
<b>Qualification:</b> <i>M.Sc., Ph.D.</i>	
<b>Specialization:</b> <i>Physics (Material Science)</i>	
<b>Official Email ID:</b> <a href="mailto:ravikamble.dypcet@dypgroup.edu.in">ravikamble.dypcet@dypgroup.edu.in</a> <a href="mailto:ravipune4@gmail.com">ravipune4@gmail.com</a>	
<b>Courses Taught</b>	<ul style="list-style-type: none"> <li>• <i>Mechanics-I</i></li> <li>• <i>Mechanics-II</i></li> <li>• <i>Electricity &amp; Magnetism-I</i></li> <li>• <i>Electricity &amp; Magnetism-II</i></li> <li>• <i>Solid State Physics and Solid-State Devices</i></li> <li>• <i>Classical Mechanics</i></li> <li>• <i>Energy Studies and Material Science</i></li> <li>• <i>Mathematical &amp; Statistical Physics</i></li> <li>• <i>Applied Physics Engineering</i></li> <li>• <i>Mathematical Methods of Physics</i></li> </ul>
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• <i>Liberal Learning Course In-charge (F.Y. B. Tech.)</i></li> <li>• <i>Class Teacher</i></li> <li>• <i>Internship Co-ordinator (2 batches)</i></li> <li>• <i>Capstone project Co-ordinator</i></li> <li>• <i>CHB In-Charge (LLC)</i></li> </ul>
<b>Research Contribution</b>	<ul style="list-style-type: none"> <li>• <i>Ravi Kamble, Sandip Sabale, Prashant Chikode, Vijaya Puri and Smita Mahajan. Structural and photocatalytic studies of hydrothermally synthesized Mn<sup>2+</sup>- TiO<sub>2</sub> nanoparticles under UV and visible light irradiation, Journal of Mater. Res.Express 3 (2016) 11500, 1-10.</i></li> </ul>

- **Ravi Kamble**, Sandip Sabale, Prashant Chikode, Vijaya Puri and Smita Mahajan. Structural characterization and photocatalytic properties of hydrothermally synthesized Ni<sup>2+</sup>-TiO<sub>2</sub> nanoparticles for dye degradation under direct sunlight, *Indian Journal of Chemistry Vol.56A*, May 2017, pp 479-487.
- **Ravi Kamble**, Sandip Sabale, Prashant Chikode, Vijaya Puri, Xiao-Ying Yu and Smita Mahajan, Studies on the Fe<sup>3+</sup> Doping Effect on Structural, Optical and Catalytic Properties of Hydrothermally Synthesized TiO<sub>2</sub> Photocatalyst, *Journal of Nanoscience & Nanotechnology-Asia*; Vol. 7, 2017, 230-242.
- T.T. Bhosale, **R.J. Kamble**, H.M. Shinde, N.L. Gavade, S.B. Babar, V.V. Gawade, S.R. Sabale, B.S. Shirke, K. M. Garadkar. Biosynthesis of SnO<sub>2</sub> aqueous leaf extract of *Calotropis gigantean* for photocatalytic activity, *Journal of Material Science: Materials in Electronics*, 8, 2018, 6826-6834.
- H.M. Shinde, **R.J. Kamble**, T.T. Bhosale, N.L. Gavade, S.B. Babar, B.S. Shirke, Biosynthesis of ZrO<sub>2</sub> nanoparticles from *ficus benghalensis* leaf extract for photocatalytic activity, *Journal of Material Science: Materials in Electronics*, 29, 16, 2018, 14055-14064.
- **Ravi Kamble**, Smita Mahajan, Vijaya Puri, Harish Shinde and Kalayanrao Visible light-driven high photocatalytic activity of Cu doped TiO<sub>2</sub> nanoparticles synthesized by hydrothermal method, *Journal of Material Science Research India*, 15, 2018, 197-208.
- P. V. Gaikwad, **R.J. Kamble**, S.J. Mane Gavade, S.R. Sabale, P. D. Kamble. Maneto-structural properties and photocatalytic performance of sol-gel synthesized cobalt substituted NiCu ferrites for degradation of methylene blue under sunlight, *Journal of Physica B: Physics of Condensed Matter*, 554, 1,
- **R.J. Kamble**, P. V. Gaikwad. Peroxy titanium Complex Derived Fe-doped TiO<sub>2</sub> Nanoparticles: Synthesis, Properties and Antibacterial Activity, *Materials Today: Proceedings* 45 (2021) 3784-3788.
- **R.J. Kamble**, P.V. Gaikwad, K.M. Garadkar, S.R. Sabale, V.R. Puri. Photocatalytic degradation of Malachite green using hydrothermally synthesized Cobalt-doped TiO<sub>2</sub> Nanoparticles, *Journal*

	<p>of the Iranian Chemical Society 2021 DOI: 10.1007/s13738-021-02303-y.</p> <ul style="list-style-type: none"> <li>• Prashant P. Chikode, <b>Ravi J. Kamble</b>, Smita S. Mahajan, Sandip R. Sabale, Sandip D. Patil, Rajiv S. Vhatkar and Vijay J. Fulari. Deformation Studies of Cylindrical Nanostructured Silica Aerogels by Using Phase Shifting Digital Holographic Interferometry, <i>Materials Today: Proceedings</i>. 46 (2021) 2298-2306.</li> <li>• Prashant P. Chikode, <b>Ravi J. Kamble</b>, Sandip R. Sabale. Diffusivity Studies of Butanol Solution using Double Exposure Digital Holographic Interferometry (DEDHI) 2020 DOI: 10.1729/Journal.21218.</li> <li>• <b>R. Kamble</b>, S. Chavan, S.S. Mahajan, G. Nikam and S. Sabale, Synthesis, Characterization and effect on Photocatalytic Property of Fe<sup>3+</sup>-TiO<sub>2</sub> Nanoparticles under U.V. light irradiation, May 2015, 13-17.</li> <li>• <b>Ravi Kamble</b>, Vijaya Puri, Smita Mahajan. Spectroscopic Studies on M-TiO<sub>2</sub> (M=Mn, Ni and Fe) Nanoparticles for degradation of malachite green dye, published in <i>Proceeding of International Conference on Advances in Materials Science</i> ISBN 978-93-5254-490-5.</li> <li>• Rajaram Kumbhar, <b>Ravi Kamble</b>, Prashant Chikode, Tanaji Shinde, Structural, Magnetic and Dielectric Properties of Rare Earths (Sm<sup>3+</sup>, Dy<sup>3+</sup>) Substituted MgFe<sub>2</sub>O<sub>4</sub> submitted to <i>Indian Journal of Physics</i> springer. (2024 <b>Accepted</b>)</li> <li>• Prashant Chikode, <b>Ravi Kamble</b>, Sandip Patil, Gurunath Nikam Comparative studies of diffusion coefficients of sucrose, lactose, and fructose using double exposure digital holographic interferometry (DEDHI) technique (2024) (<b>Accepted</b>).</li> </ul>
<p><b>FDP/Workshop Attended</b></p>	<ul style="list-style-type: none"> <li>• Attended an International Conference on Lasers and Advanced Materials (ICLAM-2010) held at Department of Physics, Abasaheb Garware College, Pune during March 6-8, 2010.</li> <li>• Presented a project work on 'Synthesis and Characterization of Ni-Co Nano- ferrite material' at M.Sc. level.</li> </ul>

- *Presented a Poster in National Seminar on Physics of Materials and Materials Based Device Fabrication (NSPM-MDF 2011) held at Department of Physics, Shivaji University, Kolhapur (Maharashtra) held on February 17- 18, 2011.*
- *Presented a Poster in Synthesis of TiO<sub>2</sub> photocatalyst for degradation of methyl orange dye, we got 2nd rank at UGC Sponsored National Conference on Recent Trends in Chemical Sciences (RTCS-2014) organized by department of Chemistry, Devchand College, Arjunnagar (Maharashtra) held on September 18- 19, 2014.*
- *Synthesis, Characterization and effect on photocatalytic property of Fe<sup>3+</sup>- TiO<sub>2</sub> nanoparticles under UV light irradiation. This manuscript is accepted for publication in International Journal of Researches in Biosciences, Agriculture & Technology, 2015 to present in 2nd international conference on Science and Technology for Society, ICSTS-2015, May 19, 20, 21, 2015, Colombo, Shrilanka.*
- *Synthesis, Characterization and Antibacterial Activity of Un-doped and Fe<sup>3+</sup>- doped Hydrothermally Grown TiO<sub>2</sub> Nanoparticles. Presented a paper in Two day International Conference on Challenges and Opportunities Before 21st Century India in the Fields of Social sciences, Science, Management and technology organized by Rajarshi Chhatrapati Shahu College, Kolhapur (Maharashtra) held on Feb. 6 and 7 2016.*
- *Studies on Fe<sup>3+</sup>-TiO<sub>2</sub> nanoparticles for its antibacterial activity by hydrothermal method. Presented a poster in UGC Sponsored National Conference on Frontier Area in Chemical Sciences (FACS-2017) organized by Yashavantrao Chavan Institute of Science, Satara (Maharashtra).*
- *Presented an Oral in International Conference on “Applied Nanotechnology and Nanoscience” (ICANN-2017) organized by Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Maharashtra) during 7th to 9th December, 2017.*
- *Hydrothermally synthesized Li<sub>0.5</sub>Bi<sub>0.5</sub>MoO<sub>4</sub> for its structural and microwave studies in 12-18 GHz. 2nd*

	<p><i>International Conference on Advances in Materials Science (ICAMS-2017), 22-23 December 2017.</i></p> <ul style="list-style-type: none"> <li>• <i>2nd International Symposium via Virtual Platform Functional Nanomaterials in Industrial Applications: Academy-Industry-Clinicians Meet 14th to 16th July 2020</i></li> <li>• <i>International Conference on Multifunctional Nnanomaterials (ICMN 2020) Organized by Department of Physics Manipal University Jaipur, Rajasthan, India December 28-30, 2020.</i></li> <li>• <i>International Virtual Conference on Advanced Materials IVCAM 2020, 21st July 2020.</i></li> <li>• <i>One-week Faculty Development Program on Innovative Practices in Teaching Learning Process (19th to 23rd dec. 2023)</i></li> <li>• <i>Participate in workshop on Celebration of Ramanujan-Chandrasekhar Legacy in Science, held on 27th to 31st January 2014.</i></li> <li>• <i>Participate in state level workshop on “Materials Processing and Characterization” held at Department of Physics, Sir Parashurambhau College, Pune, during 6th -11th March 2017.</i></li> <li>• <i>Participate in One day workshop on Revised Syllabus of Engg. Physics of F.E. at Dr. J. J. Magdum College of Engineering, Jaysingpur on 3rd August 2013.</i></li> <li>• <i>“Global Energy Crisis: Causes, Effect and Solution” Organized by Department of Physics, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji June 28, 2021.</i></li> <li>• <i>Shivaji University, Kolhapur, Department of Physics Online Lecture Series Program under UGC-Stride Component-I Scheme 7 to 10 April, 2021.</i></li> <li>• <i>Participate One Day Online Workshop “Guidance on UGC NET-SET Exam in Physics, Organized by Department of Physics and Internal Quality Assurance Cell (IQAC), 20 February 2021.</i></li> </ul>
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