

## CURRICULUM VITA

1. **Name** : Dr. Rajendra Dvidas Kale
2. **Educational Qualification** : M. Sc. Ph. D
3. **Present Designation** : Associate Professor
4. **Date of Birth** : 02<sup>nd</sup> July 1968
5. **Contact No.** : 9860687791
6. **Email ID** : rajendra\_kale@yahoo.com
7. **Date of Appointment** :15 February 2005
8. **Teaching Experience** : 19 Years
9. **Date of joining in present college:** 15<sup>th</sup> February 2005
10. **Educational Qualification:**

Sr. No.	Examination Passed	University/ Board	Year of Passing	Subject(s)	Class/ Grade
1	Ph. D.	Indian Institute of Technology, Mumbai	2000	Materials Science	NA
2	M. Sc.	M. S. University of Baroda	1991	Applied Physics	Distinction
3	B. Sc.	University of Pune, Pune	1988	Electronics	First

### 11. Total Research Publications: 28

#### a. M.Phil. / Ph.D./Research

Sr. No.	M.Phil./ Ph. D. Thesis Title	Name of the University	Year of award	Name of Guide
1	Oxygenation and Texturing Studies of $Y_1Ba_2Cu_3O_{7-d}$ Superconductors.	Indian Institute of Technology, Mumbai	2000	Prof. Om Prakash

#### b. Book:

Sr. No.	Title of Book	Year of publication	ISBN	Name & Place of Publisher
1	Elements of Materials Science	2022	9788195036028	Apex Publication, Jaipur, India

**c. Chapter in Book:**

<b>Sr. No.</b>	<b>Title of Book &amp; Name of Editor</b>	<b>Title of the Chapter</b>	<b>Year of publication</b>	<b>ISBN</b>	<b>Name &amp; Place of Publisher</b>
1	Silk Fibroin Advances in Applications and Research	Silk Fibroin Nanoparticles as a Promising Tool for Controlled Drug Delivery	2023	9781685075552	Nova Science Publisher USA
2	Silk Fibroin Advances in Applications and Research	Silk Fibroin based systems for Conversion and Storage of Energy	2023	9781685075552	Nova Science Publisher USA
3	EPR in the 21 <sup>st</sup> Century	Estimation of fluxon response delay from magnetic field variations in superconductors using ESR system	2002	9780444509734	Elsevier
4	E-Waste in India : Management, Challenges & Opportunities : Vol -I	Impact of spent Lithium Ion Batteries Recycling on Economy and Environment	2021	9789391314552	Authorpress
5	E-Waste in India : Management, Challenges & Opportunities : Vol -II	Managing India's Solar Panel Waste : Prospects, Progress, Policies and Environmental Impact	2022	978935529322	Authorpress

**Research Paper:**

<b>Sr. No.</b>	<b>Title of the Paper</b>	<b>Name of Journal</b>	<b>Month and Year of publication</b>	<b>ISBN</b>	<b>UGC. No./Impact Factor/ Citation Details</b>
1	Cavity structured S-NiO with Improved Energy Density for Aqueous Asymmetric Hybrid Supercapacitor by CDA mechanism	Materials Advances	September 2023		5.36
2	High Temperature Magnetic ordering in	Solid State Comm.	2005		1.934

	La <sub>2</sub> RuO <sub>5</sub>				
<b>3</b>	Synthesis and Electrochemical Performance of Mesoporous NiMn <sub>2</sub> O <sub>4</sub> Nanoparticles as an Anode for Lithium-Ion Battery	Journal of Composites Science	March 2021		<b>3.67</b>
<b>4</b>	Structural, Morphological, and Vibrational Properties of Porous $\alpha$ Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Prepared by Combustion method	Macromolecular Symposia	December 2021		<b>1.04</b>
<b>5</b>	Synthesis of high permeability Cu-Mg-Zn ferrites using oxalate precursors	IEEE Transactions on Magnetism	1998		<b>1.848</b>
<b>6</b>	Enhancement in Mechanical Properties of Al <sub>2</sub> O <sub>3</sub> Thin Films Deposited by Electron Beam Evaporation	Solid State Phenomena	November 2022		<b>0.47</b>
<b>7</b>	Influence of Eucalyptus Leaves Extract on Antibacterial Activity of ZnO Nanoparticles	Macromolecular Symposia	December 2021		<b>1.04</b>
<b>8</b>	Synthesis, Investigation, Structural And Elastic Properties Of Mg <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> Nanoparticles	Nanosystems: Phys. Chem. Math.,	2022		<b>1.13</b>
<b>9</b>	Microwave absorption spectrum and reentrant phase in Bi <sub>2</sub> 212 single crystal: temperature dependence	Physica C	2002		<b>1.534</b>
<b>10</b>	Fabrication and Characteristics of Nano Sized ZnSe Thin Films by Chemical Bath Deposition	Int. Res. J. of Science & Engineering, Special Issue A1	2017	ISSN 2322-0015	
<b>11</b>	Degradation of Methylene Blue Dye Using activated carbon obtained from Bio-waste	International Journal for Research in Applied Science & Engineering	Nov. 2017		
<b>12</b>	Need of Introduction of Nanoscience and nanotechnology in the High	International Journal of Creative	December 2017		

	School Curriculum in Indian School System	Research Thoughts			
13	Environmental Aspects of Nano Materials : A Review	International Journal for Research in Applied Science & Engineering	Nov. 2017		
14	Fabrication and Characterization of Nano sized ZnSe Thin films by Chemical Bath Deposition,	International Research Journal of Science and Engineering	December 2017.		
15	Synthesis and Characterization of Nano crystalline CuNiZnFerrite Powder Through Sol-Gel Auto Combustion Method	International Journal for Research in Applied Science & Engineering Technology	May 2018		
16	Temperature Dependence of Microwave Absorption and Reentrant Phase in Bi2212 Single Crystal	Meeting Abstracts of the Physical Society of Japan 56.2. 3	2001		
17	Field dependent AC susceptibility of melt textured, Nb2O5 added, YBa2Cu3O7-d superconductor	DAE-BRNS National symposium on recent trends in electro and magnetoceramics, Kolhapur (India),	Feb 1999		
18	Mechanism of Electrical Conduction in sugarcane juice	The Research View	2014		---
19	Synthesis and Characterization of Thermally Annealed SnO2 Thin Film Using Thermal Evaporation Technique	Online International Interdisciplinary Research Journal, Special Issue (02)	Dec 2018	ISSN 2249-9598	
20	Modified Structural, Optical and	International Research Journal	February		

	Electrochemical Properties of Nickel Sulphide for Superior Supercapacitor Electrode	of Science and Engineering	2023		
21	Evaluation of Antibacterial Activity of synthesized ZnO nanoparticles using Tinospora cordifolia Leaves	International Research Journal of Science and Engineering	February 2023		
22	Synthesis and Characterization of WO <sub>3</sub> thin films deposited by Thermal Evaporation Technique	International Research Journal of Science and Engineering	February 2023		
23	A Critical Review on Recent Developments in Advanced Supercapacitors for Veterinary Medicine	ES Food and Agroforestry	2023		3

**d. Research Project:**

Sr. No.	Name of Funding Agency	Project Title	Funds Received Rs	Month and Year of sanction	Duration of the Project	Status of Project
1	BCUD SPPU, Pune	Microwave Assisted Synthesis of Advanced Ceramics	300000	November 2009	2 years	Completed

**e. Papers presented in Seminar / Conference: 27**

Sr. No.	Name of the Conference/ Seminar	Title of the paper	Date	Level (State/ National/ International)	Name of the Organizer
-	-	-	-	-	-

**f. Patents published/Register: NIL**

**12. Research Guidance:**

**a) Guide ship Details**

Sr. No.	M.Phil./ Ph.D. Guide	Name of University	Month & Year of recognition	No. of Research Scholars	
				Completed	Perusing
1	Ph. D.	SPPU, Pune	February 2015	---	5

**b) Research Guidance**

<b>Sr. No.</b>	<b>Name of Scholar</b>	<b>Name of University</b>	<b>Month and Year Registration</b>	<b>Title of the Research</b>
1	Mr. Ashok M. Kamble	SPPU, Pune	March 2018	Synthesis and characterization of graphene oxide based metal composites for gas sensor application
2	Mr. Sandip B. Kakade	SPPU, Pune	March 2018	Synthesis and characterization of Metal oxide thin film for gas sensing application
3	Mr. Nileshkumar M. Pardeshi	SPPU, Pune	March 2020	Synthesis and characterization of multifunctional metal oxide/graphene nanocomposites for sensor applications
4	Mr. Tushar B. More	SPPU, Pune	March 2020	Surface modification of fabric by plasma processing
5	Mr. Pratik Ashok Patil	SPPU, Pune	March 2021	Carbon based Co-Ni layered double hydroxides hybrid nanostructure as an efficient electrode for supercapacitors

**13. Professional recognition / award/ fellowship etc. : NIL****14. E-Content Development:**

<b>Sr. No.</b>	<b>Title of Content</b>	<b>Level (UG/ PG / ALL)</b>	<b>Platform</b>	<b>Link of E-Content</b>
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**15. Work Experience on Academic Bodies and other:**

<b>Sr. No.</b>	<b>Designation/ Position</b>	<b>Duration</b>	<b>Name of Institute / University</b>	<b>Details</b>
1	BoS Member	2018-2022	T. C. College, Baramati	To design syllabus for UG/ PG Course

**16. Life Membership of Profession Bodies:**

<b>Sr. No.</b>	<b>Name of Professional Body</b>
1	Indian Association of Physics Teachers

**17. Any other Attainment: Nil**